

B&C SPEAKERS CATALOGUE 2023



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B&C SPE-
AKERS
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OGUE
2023

With over 70 years of industry experience, B&C Speakers has designed and built thousands of unique transducers. Each year, our sales and engineering teams work together to develop a comprehensive catalogue. While this catalogue reflects the large majority of our technologies, it is primarily designed to feature more recent additions to the

product range. Please refer to our web site (<http://www.bcspeakers.com>) to get the latest product updates throughout the year. You will also find more detailed specifications and physical dimensions for all standard models. Our web site is by far our most up-to-date and complete product information resource.

LARGE SIGNAL PARAMETERS AND EXCURSION LIMITS

Thiele/Small parameters, usually abbreviated T/S, have been the universal language for describing loudspeaker behavior in the small-signal domain since their introduction in the 1960s. Their primary utility is as a design aid for ported cabinets, maximizing sensitivity. They have serious limitations when applied to modern sound systems, as they were never designed to model loudspeakers in the large signal domain. In today's world of high voltage amplifiers, ubiquitous digital signal processing (DSP), and advanced computer modeling it is more important than ever to understand the intent and limitations of Thiele/Small parameters.

Thiele/Small parameters are calculated from an equivalent circuit model. Simulated resistors, capacitors, and inductors are adjusted until they match a woofer's measured impedance response (Figure 1) as closely as possible. This process is similar to how a passive crossover can have high-pass, low-pass, and equalization filters just like the ones provided in your digital loudspeaker processor.

How well this equivalent circuit models the transducer itself depends on the accuracy of the woofer impedance measurement, as well as the complexity of the circuit model itself. Different models can give quite different results for the same woofer, and every manufacturer has their own preferred model to generate T/S parameters for their specification sheets.

One of the main limitations of T/S parameters is that they are measured with the voice coil near the rest position. In short, they are small-signal parameters which should not be used beyond one watt or a few hundred Hz (where cone resonances begin to invalidate the model). Even one watt may be generous around F_s (the woofer's resonant frequency), where impedance often exceeds 100Ω in a nominally 8Ω woofer. Since modern subwoofers are rated in kilowatts, and amplifiers in tens of kilowatts, the behavior of a woofer at one watt is not really so interesting anymore. Loudspeaker designers need to predict not just loudspeaker system sensitivity, but maximum output before excessive distortion or risk of damage. The woofer's behavior at high excursions must be

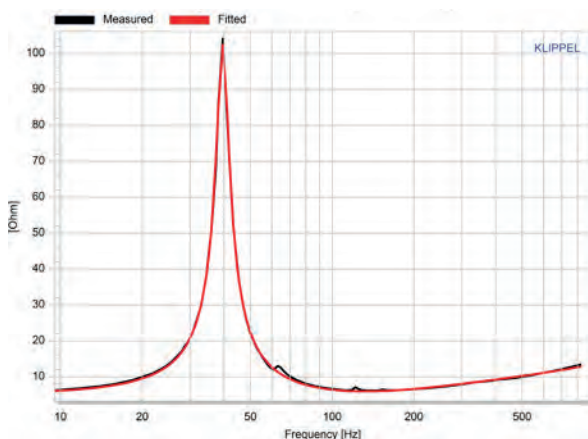
measured and considered in its design, along with durability concerns like cone weight and suspension stiffness.

To try and describe the maximum capabilities of a transducer, large-signal parameters like X_{max} (excursion) and P_o (power handling) are used. Since there is no allowance for non-linearities in the small-signal parameters, the behavior of the system once the cone starts to move cannot be correctly accounted for by most software. In fact, all the parameters change considerably with cone motion, and they are not necessarily symmetrical (i.e. the woofer behaves differently coil in versus coil out). To more accurately characterize a woofer, it is important to measure changes in all fundamental parameters across the whole range of cone motion. The woofer can then be optimized to behave predictably at high power and excursion.

B&C's specified **Nominal Power Handling** is measured according to the AES2-1984 standard. The transducer under test is driven for a two-hour period with a pink noise signal having a crest factor of 2 (or 6 dB), and filtered to the working range of the transducer itself. For instance,

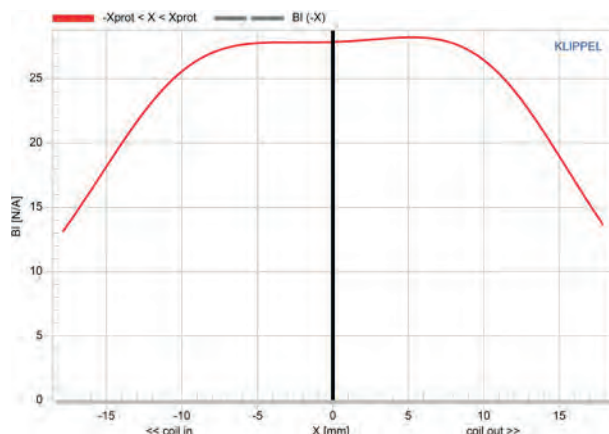
Magnitude of electric impedance Z (f)

Measured free-air impedance of 18SW115 subwoofer (black), and simulated impedance based on equivalent circuit model (red).



Force factor BI (x)

BI(x) graph for 18SW115 subwoofer. Dotted line is the same curve inverted to help gauge symmetry



B&C Speakers reserves the right to change the specifications of our products without notice

a 50-500 Hz range is typical for woofer testing. Cone loudspeakers are tested in free air, while compression drivers are coupled to their recommended horn. Power is calculated using the RMS value of applied voltage – averaged over the test period – and the minimum value of electrical impedance within the working range of the loudspeaker. After the test, the transducer must be in working order, without permanent impact on its technical performance.

Due to the transient character of musical program material, whose crest factor is 12 dB or more, it is customary to specify a **Continuous Program Power Handling** double that of the Nominal Power Handling. This figure can then be used as a guide to power amplifier selection, in order to fully exploit the thermal and mechanical capabilities of the transducer without clipping.

Looking through a loudspeaker specification sheet, an electronics engineer would likely ask where the missing pages are. Most woofer spec sheets are one page long, and list more physical characteristics like coil height than tested parameters like sensitivity. In electronics even a very simple operational amplifier² comes with dozens of pages of specifications, from packaging to application notes, detailed test conditions, and every major parameter versus voltage, load, and ambient temperature. Circuit diagrams are provided, and both standard operating and failure conditions are considered. A moving mechanical system like a woofer is much more complicated than a simple integrated circuit, especially considering the diversity of applications. The parameters prescribed by T/S cannot hope to account for the varieties in performance seen in practical applications.

At B&C Speakers, one of the tools used in transducer development is the Klippel R&D suite². This suite is a combination of

hardware and software that can be used to measure transducers at high excursion and power, and characterize their performance in a repeatable way. Using a laser to directly measure cone excursion, in combination with voltage and current measured at the amplifier terminals, our engineers can measure exactly how closely the transducer follows an input signal. The result of running a full Klippel Large Signal Identification (LSI) test is a twelve-page report with much more detailed information about suspension limits and symmetry, how fast the motor and coil heat up, and even how electrical damping is affected by a hot coil. Instabilities and nonlinearities can be identified, and engineers can then look to address them in the design of the transducer.

For example, consider the BI parameter. This parameter is a measurement of how strongly the electric current of the audio signal translates to force on the cone - like horsepower in a car engine. The strength of the magnetic field, B, is multiplied by the length of wire immersed in that field, I. Higher numbers indicate a stronger motor, which results in better sound quality, efficiency, and stronger electrical damping. Figure 2 shows the anatomy of a typical woofer motor. As the cone moves, the amount of coil immersed in the magnetic gap changes – until the cone has moved so far that most of the coil is no longer in the gap. Graphing the value of BI as the cone moves from all the way in to all the way out gives a result like Figure 3 (taken from our 18SW115 subwoofer).

The BI curve in Figure 3 is relatively flat for ± 10 mm of excursion. This linearity is a key advantage in our SW, TBW, DS, and IPAL series subwoofers. Using a combination of coil geometry and magnetic circuit design, our engineers are able to keep BI relatively constant through the middle 2/3 of excursion (where the coil spends most of its life). Effectively, the peak BI the motor could provide is spread out over a wider

range of excursion. This distribution results in reduced distortion, and improved sound quality and durability. Another woofer could have higher BI listed on its spec sheet, but be unstable and have higher distortion at high excursion as its motor force could be concentrated in the middle.

The “ X_{var} ” excursion value reported on our data sheets (generally after the traditional “ X_{max} ” value) is generated taking the measured BI curve into account. Beyond this excursion limit, the magnetic field seen by the voice coil (BI), or the total suspension compliance (K_{ms}), or both, drops to less than 50% of their small-signal value. Excursions beyond this level produce high distortion levels, strong variations from small signal behavior, and eventually power compression. B&C Speakers believes that the added information included in X_{var} gives a more accurate and reliable prediction of loudspeaker behavior under actual operating conditions.

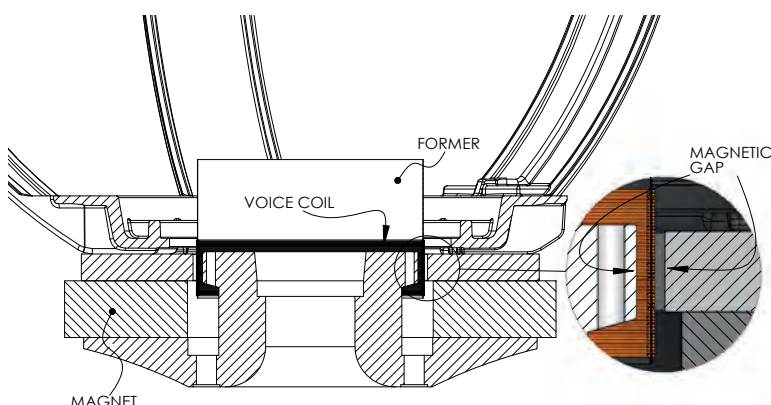
These examples illustrate how one-dimensional specifications like T/S parameters tell only a very small part of the story, and can make two very different loudspeakers look similar. Transducers are complex mechanical systems with many compromises to make between cost, performance, and longevity. A pro-audio brand like B&C Speakers designs transducers for maximum output and durability, to be used in the lightest weight and smallest enclosures possible. We deploy advanced R&D techniques to analyze and predict large signal behavior and minimize nonlinearities. Make sure when you choose a woofer based on Thiele/Small parameters you understand whether they reflect a woofer designed using these same methods, or one designed to look good at rest, on paper.

For more information please visit <http://www.bcspeakers.com> or contact your local distributor.

¹ <http://www.ti.com/product/TL074>

² <https://www.klippel.de/products/rd-system.html>

Cross-section of subwoofer motor showing metal parts which concentrate magnetic energy in the gap, where the coil is immersed



B&C Speakers is a major supplier to the pro audio market in midrange, woofer and subwoofer cone drivers. We have made a strong commitment to provide a well-balanced line of LF drivers that range in size from 2" to 21".

In recent years we have made refinements to our cone geometry, magnet assemblies and speaker production lines to create a dynamic and powerful lineup of products. The models that are included in this catalog all have:

- Increased sensitivity
 - Increased power handling capacity
 - Increased excursion capabilities
 - lower distortion levels
-

From nightclubs, to stadiums, to concert halls around the world, our speakers are chosen based on their reliability, consistency and most of all for their outstanding sound quality and performance.



5FG44

FE WOOFER

200 W
continuous program
power capacity

44 mm (1.7 in)
copper voice coil

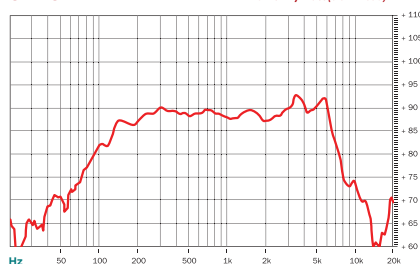
92 dB
sensitivity

63 - 6000 Hz
response



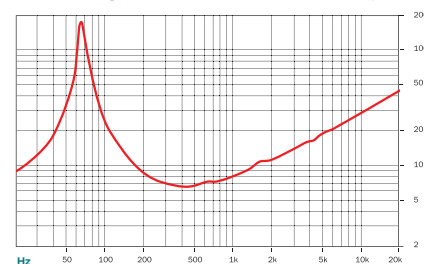
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	127 mm (5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	63 - 6000 Hz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Copper
Former Material	Kapton
Winding Depth	9 mm (0.35 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	63 Hz
Re	5.8 Ω
Qes	0.3
Qms	10
Qts	0.27
Vas	6.3 dm³ (0.22 ft³)
Sd	95 cm² (14.7 in²)
η ₀	0.55%
X max	± 3 mm
X var	± 5 mm
Mms	12.0 g
Bl	10 T·m
Le	0.8 mH
EBP	210 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	155 mm (6.1 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	77 mm (3.03 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.5 dm³ (0.02 ft³)
Net Weight	1.6 kg (3.52 lb)
Shipping Weight	1.8 Kg (3.97 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK005FG448

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 4000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



6MD38

FE MIDRANGE

240 W
continuous program
power capacity

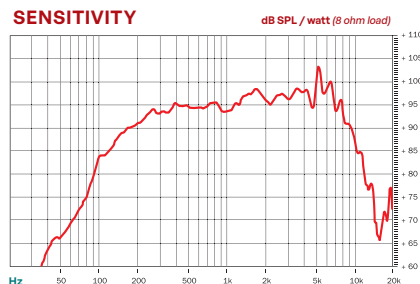
38 mm (1.5 in)
aluminium voice coil

96 dB
sensitivity

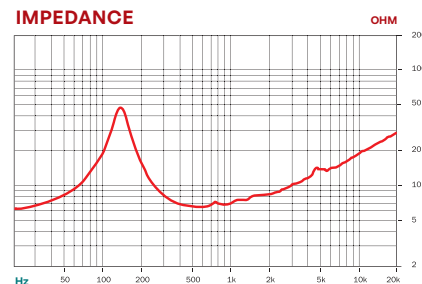
130 - 6000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	120 W
Continuous Program ²	240 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	130 - 6000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	9 mm (0.35 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.4 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	130 Hz
Re	5.7 Ω
Qes	0.49
Qms	3.7
Qts	0.44
Vas	3 dm³ (0.1 ft³)
Sd	132 cm² (20.5 in²)
η ₀	1.4%
X max	± 2 mm
X var	± 4.5 mm
Mms	12 g
Bl	10.5 T·m
Le	0.25 mH
EBP	265 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	145 mm (5.7 in)
Depth	82 mm (3.2 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.8 dm³ (0.03 ft³)
Net Weight	2.2 kg (4.8 lb)
Shipping Weight	2.4 kg (5.29 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK006MD388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 500 to 6000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



6PS38 FE WOOFER

300 W
continuous program
power capacity

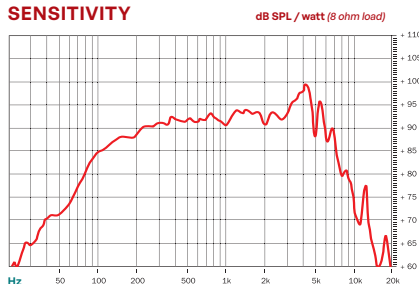
38 mm (1.5 in)
aluminium voice coil

94 dB
sensitivity

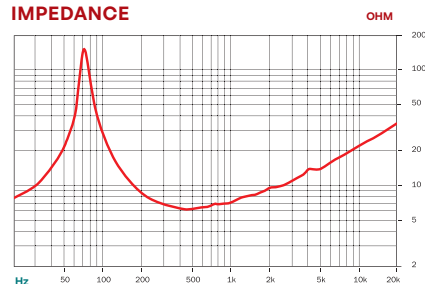
75 - 5000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	150 W
Continuous Program ²	300 W
Sensitivity (1W/1m) ³	94 dB
Frequency Range	75 - 5000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	12 mm (0.49 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.4 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	75 Hz
Re	5.4 Ω
Qes	0.31
Qms	11.7
Qts	0.3
Vas	8 dm³ (0.28 ft³)
Sd	132 cm² (20.46 in²)
η ₀	1%
X max	± 6 mm
X var	± 7.5 mm
Mms	14 g
Bl	10.8 T·m
Le	0.6 mH
EBP	241 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.36 in)
Bolt Circle Diameter	172 mm (6.77 in)
Baffle Cutout Diameter	145.0 mm (5.71 in)
Depth	82 mm (3.23 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.8 dm³ (0.03 ft³)
Net Weight	2.2 kg (4.85 lb)
Shipping Weight	2.4 kg (5.29 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06PS388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



6PS44

FE WOOFER

400 W
continuous program
power capacity

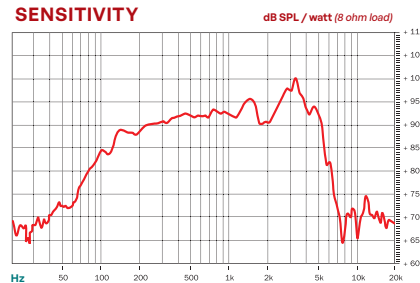
44 mm (1.7 in)
copper voice coil

93 dB
sensitivity

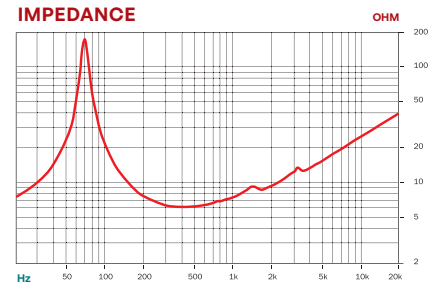
70 - 5000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.0 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	93 dB
Frequency Range	70 - 5000 Hz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	12 mm (0.49 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.25 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	71 Hz
Re	5.3 Ω
Qes	0.34
Qms	12.5
Qts	0.33
Vas	7 dm³ (0.25 ft³)
Sd	132 cm² (20.46 in²)
η _o	0.7%
X max	± 4.5 mm
X var	± 6.0 mm
Mms	18 g
Bl	11 T·m
Le	0.7 mH
EBP	208 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.36 in)
Bolt Circle Diameter	172 mm (6.77 in)
Baffle Cutout Diameter	145.0 mm (5.71 in)
Depth	88 mm (3.46 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	0.9 dm³ (0.03 ft³)
Net Weight	2.5 kg (5.51 lb)
Shipping Weight	2.7 Kg (5.95 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)

Service kit **RCK06PS448**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



8FMB51

FE MID-BASS

500 W
continuous program
power capacity

51 mm (2 in)
aluminium voice coil

Ventilated voice coil
gap for reduced power
compression

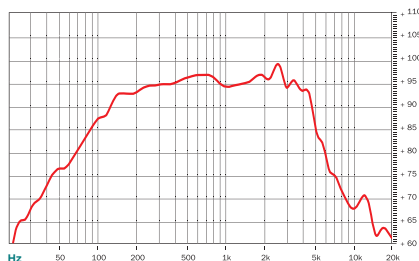
96.5 dB
sensitivity

67 - 4500 Hz
response



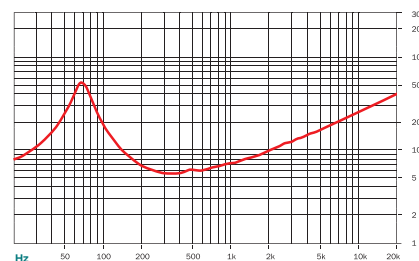
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	5.5 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	67 - 4500 Hz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	15.0 mm (0.59 in)
Magnetic Gap Depth	8.0 mm (0.31 in)
Flux Density	1.19 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Waterproof Impregnated Cone

THIELE & SMALL PARAMETERS⁴

Fs	67 Hz
Re	4.7 Ω
Qes	0.31
Qms	3.07
Qts	0.28
Vas	20.7 dm³ (0.73 ft³)
Sd	227 cm² (35.19 in²)
η _o	1.91 %
X max	± 5.5 mm
X var	± 5.0 mm
Mms	20.2 g
Bl	11.3 T·m
Le	0.48 mH
EPB	216 Hz

MOUNTING AND SHIPPING INFORMATION

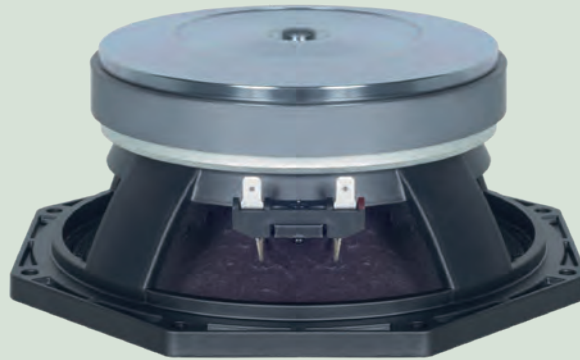
Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	92 mm (3.6 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.2 dm³ (0.04 ft³)
Net Weight	4.0 kg (8.82 lb)
Shipping Weight	4.45 kg (9.81 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



8PE21

FE MIDRANGE

400 W
continuous program
power capacity

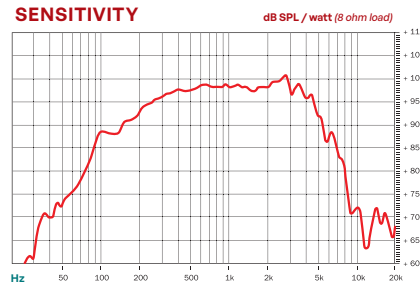
51 mm (2 in)
copper voice coil

98 dB
sensitivity

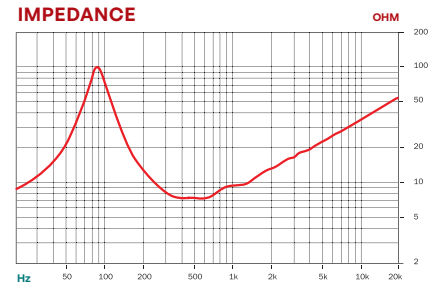
90 - 5000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	90 - 5000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Kapton
Winding Depth	9.0 mm (0.37 in)
Magnetic Gap Depth	8.0 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Ferrite
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	87 Hz
Re	5.6 Ω
Qes	0.2
Qms	3.8
Qts	0.19
Vas	13 dm ³ (0.46 ft ³)
Sd	220 cm ² (34.1 in ²)
η ₀	4.1%
X max	± 2.5 mm
X var	± 4.5 mm
Mms	18 g
Bl	16.6 T·m
Le	0.5 mH
EBP	435 Hz

MOUNTING AND SHIPPING INFORMATION

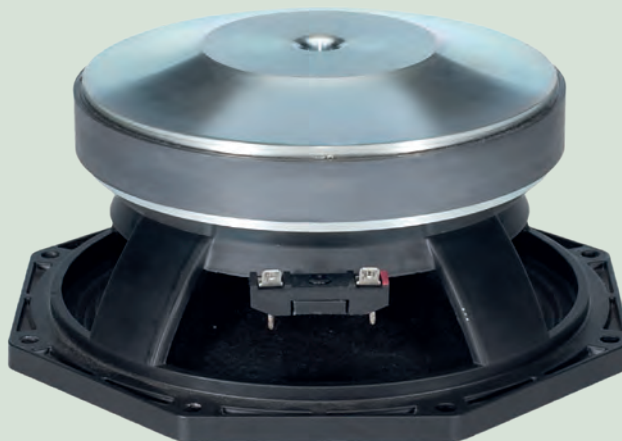
Overall Diameter	225 mm (8.86 in)
Bolt Circle Diameter	210 mm (8.27 in)
Baffle Cutout Diameter	187 mm (7.36 in)
Depth	91 mm (3.58 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Air volume occupied by driver	1.2 dm ³ (0.04 ft ³)
Net Weight	4.2 kg (9.26 lb)
Shipping Weight	4.65 kg (10.25 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Service kit	RCK008PE218

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



8FW51 FE WOOFER

400 W
continuous program
power capacity

51 mm (2 in)
copper voice coil

Shorting copper cap
for extended
HF response

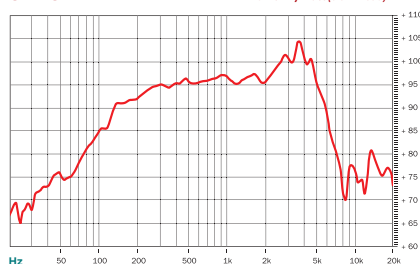
97 dB
sensitivity

70 - 5000 Hz
response



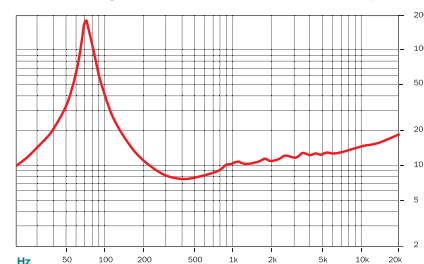
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	70 - 5000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Kapton
Winding Depth	17 mm (0.65 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.35 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	74 Hz
Re	5.2 Ω
Qes	0.21
Qms	9.3
Qts	0.21
Vas	12 dm³ (0.42 ft³)
Sd	220 cm² (34.1 in²)
η _o	2.1 %
X max	± 6 mm
X var	± 5 mm
Mms	27 g
Bl	17.7 T·m
Le	0.56 mH
EPB	352 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	100 mm (3.94 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	5.3 kg (11.6 lb)
Shipping Weight	5.75 kg (12.7 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Service kit	RCK008FW518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 4000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω and 16 Ω, data upon request



8FG51 FE WOOFER

500 W
continuous program
power capacity

51 mm (2 in)
copper voice coil

Shorting copper
cap for extended
HF response

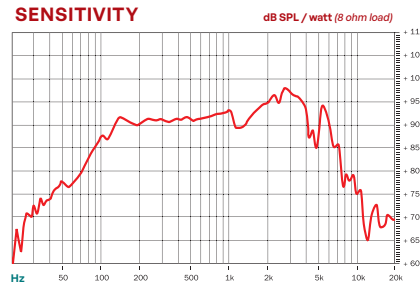
93 dB
sensitivity

50 - 4000 Hz
response

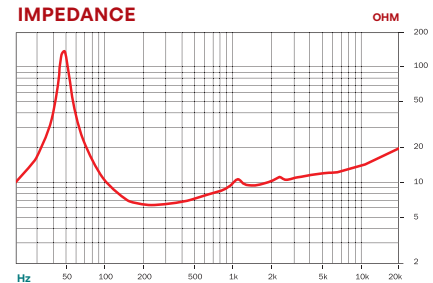
Ventilated voice gap
for reduced power
compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	93 dB
Frequency Range	50 - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front side

THIELE & SMALL PARAMETERS⁴

Fs	49 Hz
Re	5.1 Ω
Qes	0.34
Qms	9
Qts	0.32
Vas	20 dm³ (0.71 ft³)
Sd	220 cm² (34.1 in²)
η _o	0.7%
X max	± 6.5 mm
X var	± 8 mm
Mms	35 g
Bl	12.9 T·m
Le	0.5 mH
EBP	144 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	89 mm (3.5 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	3.4 kg (7.5 lb)
Shipping Weight	3.8 kg (8.4 lb)
Shipping Box	220x260x160 mm (10.2x10.2x6.3 in)
Service kit	RCK008FG51-8

¹ 2 hour test made with continuous pink noise signal (6 dB crest factor) within the specified range. Power calculated on rated minimum impedance. Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 4000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

8FG64

FE SUBWOOFER



600 W
continuous program
power capacity

64 mm (2.5 in)
copper voice coil

Aluminium
demodulating ring
for very low distortion

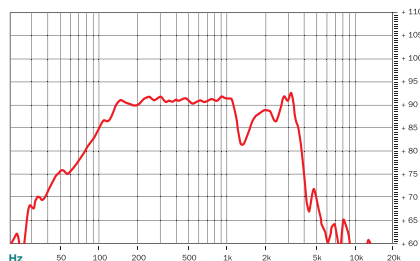
92 dB
sensitivity

50 - 3000 Hz
response



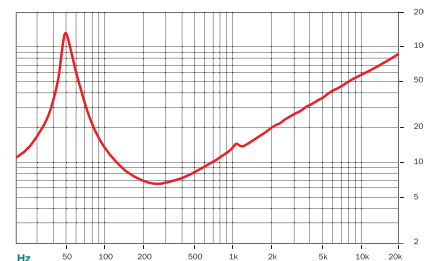
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	300 W
Continuous Program ²	600 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	64 mm (2.52 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	10 mm (0.39 in)
Flux Density	0.9 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	51 Hz
Re	5.8 Ω
Qes	0.32
Qms	10.1
Qts	0.31
Vas	15 dm³ (0.53 ft³)
Sd	220 cm² (34.1 in²)
η ₀	0.7%
X max	± 7 mm
X var	± 8 mm
Mms	41 g
Bl	15.8 T·m
Le	1.7 mH
EBP	159 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.86 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	100 mm (3.94 in)
Flange and Gasket Thickness	9 mm (0.37 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	4.5 kg (9.92 lb)
Shipping Weight	4.95 kg (10.91 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Service kit	RCK008FG648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



10MD26

FE MID-BASS

700 W
continuous program
power capacity

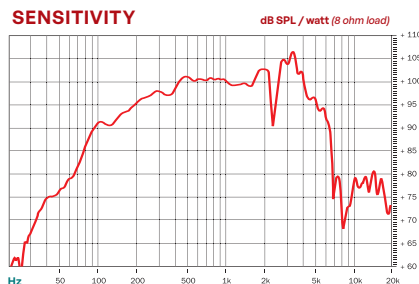
76 mm (3 in)
aluminium voice coil

100 dB
sensitivity

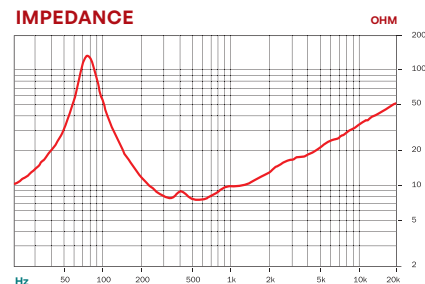
80 - 4000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	80 - 4000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.45 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	76 Hz
Re	5.8 Ω
Qes	0.22
Qms	4.8
Qts	0.21
Vas	20 dm³ (0.71 ft³)
Sd	320 cm² (49.1 in²)
η _o	3.9 %
X max	± 1.5 mm
X var	± 4.5 mm
Mms	31 g
Bl	19.6 T·m
Le	1.2 mH
EPB	345 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	262 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (8.8 in)
Depth	124 mm (4.9 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	2.6 dm³ (0.09 ft³)
Net Weight	7.3 kg (16.1 lb)
Shipping Weight	7.9 kg (17.4 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK010MD268

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 4000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



10FW64

FE WOOFER

500 W
continuous program
power capacity

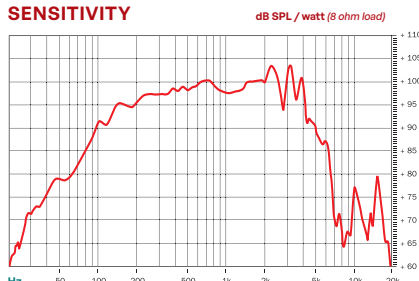
64 mm (2.5 in)
aluminium voice coil

98 dB
sensitivity

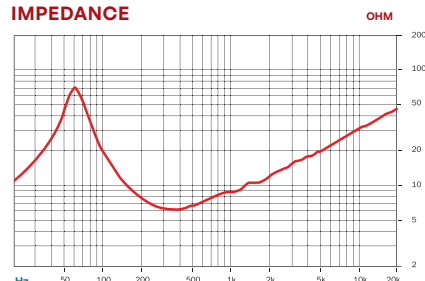
65 - 3000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	65 - 3000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	63 Hz
Re	5 Ω
Qes	0.25
Qms	3.4
Qts	0.23
Vas	27 dm³ (0.95 ft³)
Sd	320 cm² (50 in²)
η ₀	2.6 %
X max	± 5 mm
X var	± 5.5 mm
Mms	34 g
Bl	16.4 T·m
Le	0.9 mH
EBP	252 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (8.8 in)
Depth	116 mm (4.6 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	2.5 dm³ (0.09 ft³)
Net Weight	5.9 kg (13 lb)
Shipping Weight	6.5 kg (14.3 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK010FW648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



12MH32

FE MID-BASS

800 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

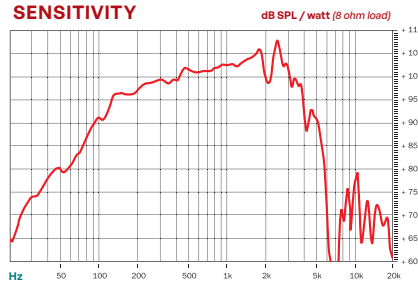
Aluminium
demodulating ring
for very low distortion

101 dB
sensitivity

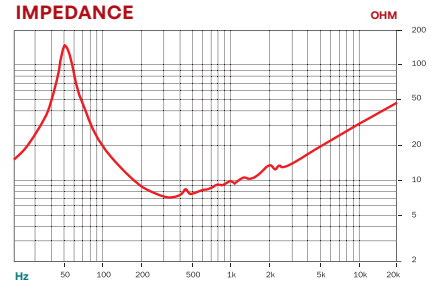
50 - 3000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	101 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.4 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	53 Hz
Re	5.2 Ω
Qes	0.2
Qms	7.2
Qts	0.19
Vas	63 dm³ (2.2 ft³)
Sd	522 cm² (80.9 in²)
η _o	4.8 %
X max	± 5 mm
X var	± 7 mm
Mms	54 g
Bl	22.3 T·m
Le	0.83 mH
EBP	265 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	316 mm (12.4 in)
Bolt Circle Diameter	296 mm (11.6 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	133 mm (5.24 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3.3 dm³ (0.12 ft³)
Net Weight	7.6 kg (16.7 lb)
Shipping Weight	8.5 kg (18.74 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK012MH328

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



12FW64

FE WOOFER

500 W
continuous program
power capacity

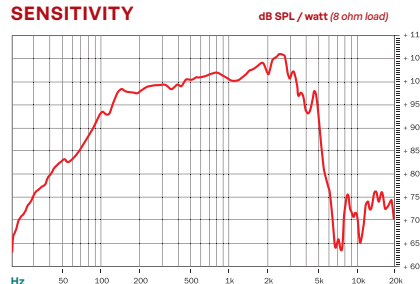
64 mm (2.5 in)
aluminium voice coil

98 dB
sensitivity

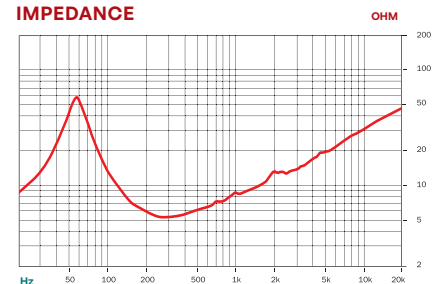
55 - 3000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	55 - 3000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.3 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	55 Hz
Re	5.2 Ω
Qes	0.32
Qms	3.5
Qts	0.29
Vas	64 dm³ (2.26 ft³)
Sd	522 cm² (80.9 in²)
η ₀	3.6 %
X max	± 5 mm
X var	± 5 mm
Mms	47 g
Bl	15.5 T·m
Le	1 mH
EBP	171 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	283 mm (11.1 in)
Depth	136 mm (5.35 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	3 dm³ (0.10 ft³)
Net Weight	5.6 kg (12.3 lb)
Shipping Weight	6.5 kg (14.33 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12FW648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request



12FW76

FE WOOFER

1000 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

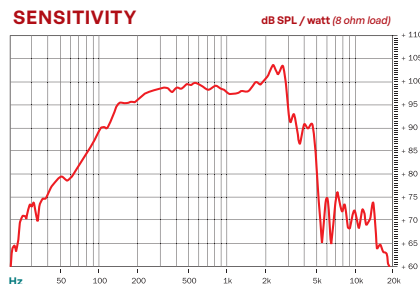
Aluminium
demodulating ring
for very low distortion

100 dB
sensitivity

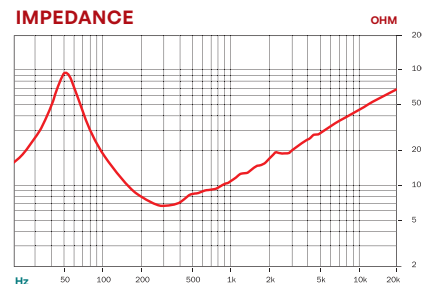
55 - 3000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.8 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous program ²	1000 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	55 - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.35 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	54 Hz
Re	5.1 Ω
Qes	0.18
Qms	3.8
Qts	0.18
Vas	45 dm³ (1.6 ft³)
Sd	522 cm² (80.9 in²)
η _o	3.7 %
X max	± 7 mm
X var	± 10 mm
Mms	75 g
Bl	26.4 T·m
Le	1.4 mH
EBP	300 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	283 mm (11.1 in)
Depth	147 mm (5.79 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3 dm³ (0.10 ft³)
Net Weight	8.5 kg (18.7 lb)
Shipping Weight	9.4 kg (20.72 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK012FW768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 4000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



12FW88

FE WOOFER

1400 W
continuous program
power capacity

88 mm (3.5 in)
aluminium voice coil

97 dB
sensitivity

50 - 3000 Hz
response

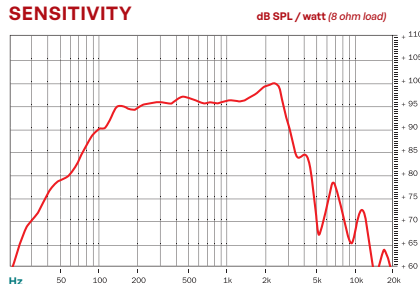
Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance

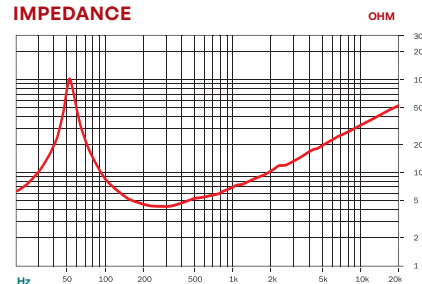
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21.5 mm (0.85 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.04 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	53 Hz
Re	5.1 Ω
Qes	0.35
Qms	7.7
Qts	0.33
Vas	45.7 dm³ (1.61 ft³)
Sd	531 cm² (82.31 in²)
η _o	2.05 %
X max	± 8 mm
X var	± 8.6 mm
Mms	76.4 g
Bl	19.5 T·m
Le	0.9 mH
EBP	151 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	285 mm (11.2 in)
Depth	145 mm (5.71 in)
Flange and Gasket Thickness	12 mm (0.49 in)
Air volume occupied by driver	2.5 dm³ (0.09 ft³)
Net Weight	8.3 kg (18.3 lb)
Shipping Weight	9.2 kg (20.28 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request



12PS100

FE SUBWOOFER

1400 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

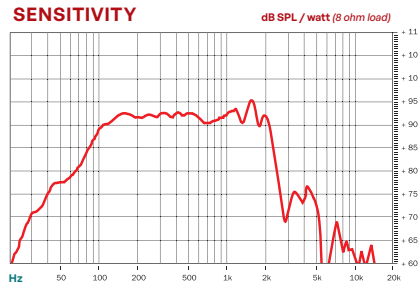
Double silicone
spider with optimized
compliance

93 dB
sensitivity

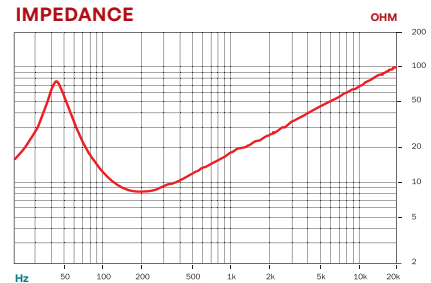
45 - 1000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	93 dB
Frequency Range	45 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.05 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	44 Hz
Re	5.3 Ω
Qes	0.29
Qms	3.9
Qts	0.27
Vas	47 dm³ (1.6 ft³)
Sd	531 cm² (82.3 in²)
η ₀	1.3 %
X max	± 8 mm
X var	± 8 mm
Mms	106 g
Bl	22.5 T·m
Le	2 mH
EBP	151 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	319 mm (12.5 in)
Bolt Circle Diameter	299 mm (11.8 in)
Baffle Cutout Diameter	281 mm (11.1 in)
Depth	118 mm (4.6 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	8.8 kg (19.4 lb)
Shipping Weight	9.7 kg (21.38 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12PS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

12TBX100

FE SUBWOOFER



2000 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance

95 dB
sensitivity

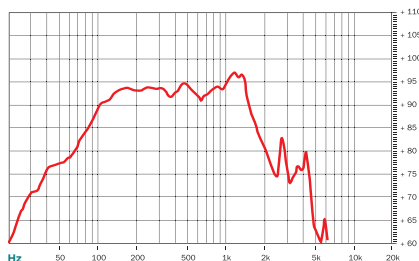
45 - 1500 Hz
response

Ventilated voice
coil gap for reduced
power compression



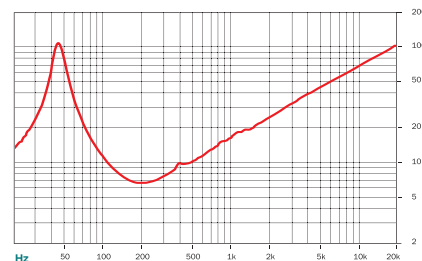
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	320 mm (12.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	95 dB
Frequency Range	45 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	42 Hz
Re	5.1 Ω
Qes	0.27
Qms	6.9
Qts	0.26
Vas	37.5 dm³ (1.3 ft³)
Sd	531 cm² (82.3 in²)
η _o	1.15 %
X max	± 9 mm
X var	± 11 mm
Mms	119 g
Bl	25.5 T·m
Le	1.6 mH
EBP	155 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	319 mm (12.5 in)
Bolt Circle Diameter	299 mm (11.8 in)
Baffle Cutout Diameter	281 mm (11.1 in)
Depth	135 mm (5.3 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	4.2 dm³ (0.15 ft³)
Net Weight	11.8 kg (26 lb)
Shipping Weight	12.7 kg (28.0 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12TBX1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 1500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

12FG100

FE SUBWOOFER



2000 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

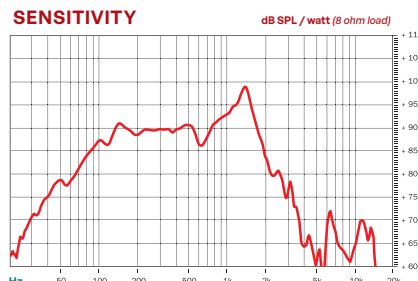
91 dB
sensitivity

34 - 1000 Hz
response

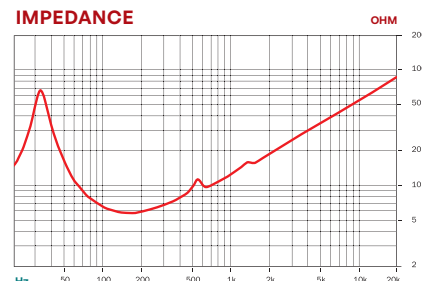
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	5.9 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	91 dB
Frequency Range	34 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	26.5 mm (0.83 in)
Magnetic Gap Depth	12 mm (0.47 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	34 Hz
Re	4.9 Ω
Qes	0.39
Qms	5.1
Qts	0.36
Vas	49 dm³ (1.73 ft³)
Sd	522 cm² (80.91 in²)
η ₀	0.49 %
X max	± 10.3 mm
X var	± 14 mm
Mms	167.8 g
Bl	21.4 T·m
Le	0.96 mH
EBP	87 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	320 mm (12.6 in)
Bolt Circle Diameter	299 mm (11.77 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	150 mm (5.91 in)
Flange and Gasket Thickness	20 mm (0.81 in)
Air volume occupied by driver	3.0 dm³ (0.11 ft³)
Net Weight	12.5 kg (27.56 lb)
Shipping Weight	13.4 kg (27.56 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12PS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request



15PLB76

FE WOOFER

800 W
continuous program
power capacity

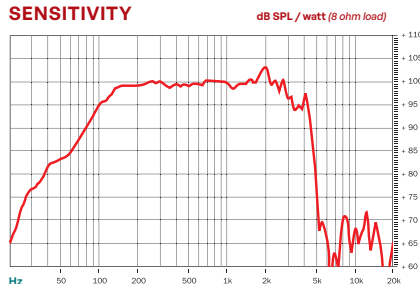
76 mm (3 in)
copper voice coil

100 dB
sensitivity

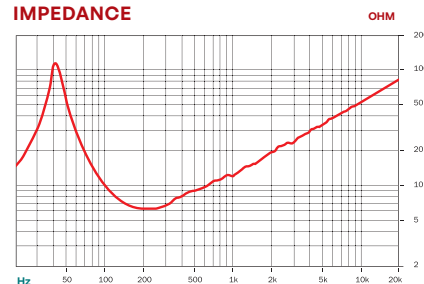
40 - 2000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	16 mm (0.62 in)
Magnetic Gap Depth	11 mm (0.4 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	42 Hz
Re	5.0 Ω
Qes	0.26
Qms	5.9
Qts	0.25
Vas	164 dm³ (5.8 ft³)
Sd	855 cm² (132.5 in²)
η _o	4.5 %
X max	± 5 mm
X var	± 8 mm
Mms	88 g
Bl	22.1 T·m
Le	1.3 mH
EBP	161 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	169 mm (6.65 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	5.2 dm³ (0.18 ft³)
Net Weight	8.5 kg (18.7 lb)
Shipping Weight	9.8 kg (21.61 in)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15PLB768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request



15FW76

FE WOOFER

1000 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

Aluminium
demodulating ring
for very low distortion

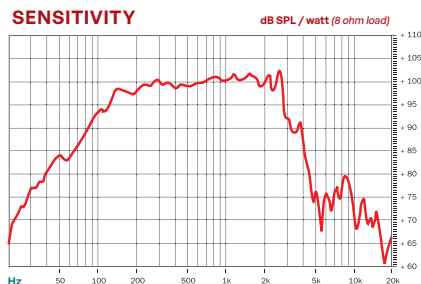
100 dB
sensitivity

40 - 2000 Hz
response

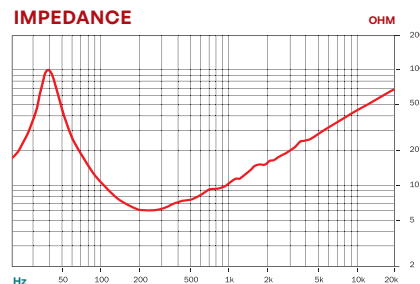
Double silicone
spider and ventilated
voice coil gap



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous program ²	1000 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.25 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	40 Hz
Re	5.1 Ω
Qes	0.22
Qms	5.1
Qts	0.21
Vas	138 dm³ (4.9 ft³)
Sd	855 cm² (132.5 in²)
η ₀	3.9 %
X max	± 7 mm
X var	± 8 mm
Mms	117 g
Bl	26.2 T·m
Le	1.4 mH
EBP	181 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	177 mm (6.97 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	5.5 dm³ (0.19 ft³)
Net Weight	9.2 kg (20.2 lb)
Shipping Weight	10.5 kg (23.15 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15FW768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



15FW88

FE WOOFER

1400 W
continuous program
power capacity

88 mm (3.5 in)
aluminium voice coil

98 dB
sensitivity

49 - 3000 Hz
response

Aluminium
demodulating ring
for very low distortion

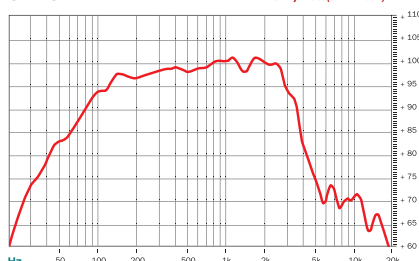
Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



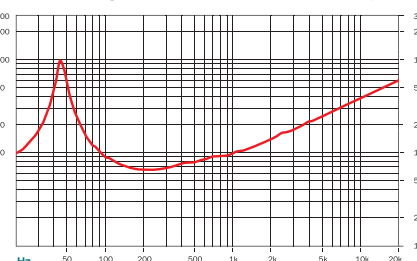
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	49 - 3000 Hz
Voice Coil Diameter	88 mm (3.45 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21.5 mm (0.85 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.04 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	49 Hz
Re	5.2 Ω
Qes	0.45
Qms	9.3
Qts	0.43
Vas	103.7 dm³ (3.66 ft³)
Sd	855 cm² (132.53 in²)
η ₀	2.63 %
X max	± 8 mm
X var	± 9.5 mm
Mms	106.8 g
Bl	19.27 T·m
Le	0.8 mH
EBP	108 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	371 mm (14.61 in)
Baffle Cutout Diameter	357 mm (14.06 in)
Depth	174 mm (6.85 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	9 kg (19.84 lb)
Shipping Weight	10.3 kg (22.71 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request



15PS100

FE SUBWOOFER

1400 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

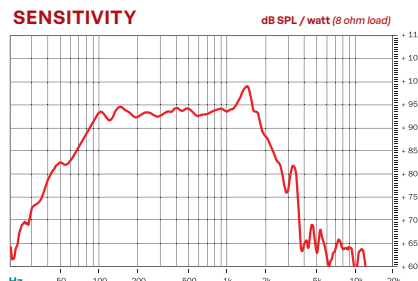
Double silicone
spider with optimized
compliance

95 dB
sensitivity

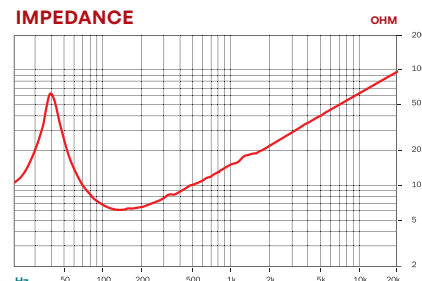
35 - 1500 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	95 dB
Frequency Range	35 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	11 mm (0.4 in)
Flux Density	1.05 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	39 Hz
Re	5.2 Ω
Qes	0.47
Qms	6.0
Qts	0.43
Vas	103.0 dm³ (3.64 ft³)
Sd	855.0 cm² (132.5 in²)
η ₀	1.35 %
X max	± 8 mm
X var	± 6.5 mm
Mms	160 g
Bl	21.2 T·m
Le	2.0 mH
EBP	82 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	168 mm (6.6 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	6.3 dm³ (0.22 ft³)
Net Weight	9.8 kg (21.5 lb)
Shipping Weight	11.1 kg (24.47 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15PS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 1500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

15PZB100

FE SUBWOOFER



1400 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

Double silicone
spider with optimized
compliance

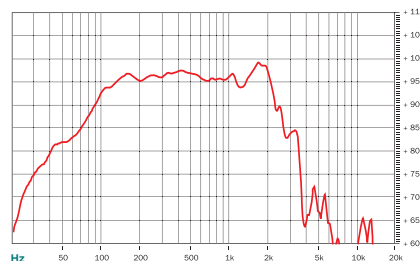
97 dB
sensitivity

40 - 2000 Hz
response



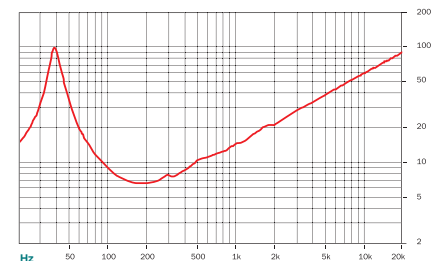
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	9 mm (0.35 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	39 Hz
Re	5.2 Ω
Qes	0.3
Qms	6.5
Qts	0.29
Vas	110 dm³ (3.8 ft³)
Sd	855 cm² (132.5 in²)
η _o	2.1 %
X max	± 8 mm
X var	± 6.5 mm
Mms	154 g
Bl	25.8 T·m
Le	2 mH
EBP	130 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	174 mm (6.85 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	5.2 dm³ (0.18 ft³)
Net Weight	11.8 kg (26 lb)
Shipping Weight	13.1 kg (28.8 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15PZB1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

15TBX100

FE SUBWOOFER



2000 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

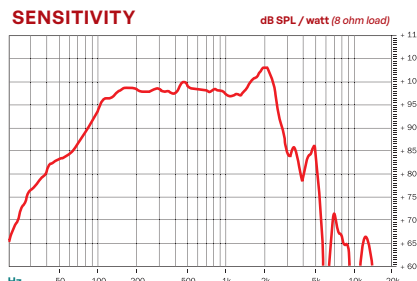
96 dB
sensitivity

35 - 1500 Hz
response

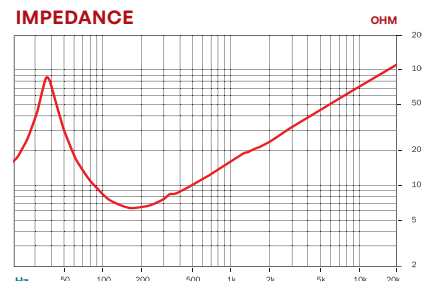
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	35 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	35 Hz
Re	5.1 Ω
Qes	0.3
Qms	5.2
Qts	0.28
Vas	113 dm³ (3.8 ft³)
Sd	855 cm² (132.5 in²)
η ₀	1.95 %
X max	± 9 mm
X var	± 11 mm
Mms	163 g
Bl	25.5 T·m
Le	1.6 mH
EBP	116 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	181 mm (7.1 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	5.4 dm³ (0.19 ft³)
Net Weight	12.3 kg (27.1 lb)
Shipping Weight	13.6 kg (29.98 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15TBX1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 1500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

15TBW100

FE SUBWOOFER



3000 W
continuous program
power capacity

100 mm (4 in)
split winding
copper voice coil

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

96 dB
sensitivity

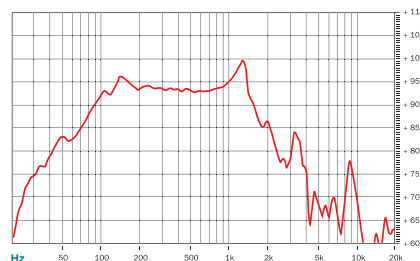
40 - 1500 Hz
response

Aluminium
demodulating ring
for very low distortion



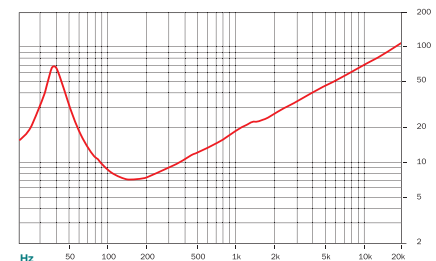
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	1500 W
Continuous Program ²	3000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	40 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	31 mm (1.22 in)
Magnetic Gap Depth	15 mm (0.59 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	39 Hz
Re	5.3 Ω
Qes	0.33
Qms	4.4
Qts	0.31
Vas	96 dm³ (3.39 ft³)
Sd	855 cm² (132.5 in²)
η _o	1.6 %
X max	± 12 mm
X var	± 13.5 mm
Mms	181 g
Bl	26.4 T·m
Le	2.2 mH
EBP	118 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	191 mm (7.52 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	6 dm³ (0.21 ft³)
Net Weight	14.3 kg (31.5 lb)
Shipping Weight	15.6 kg (34.39 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

Service kit **RCK15TBW1008**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 1000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18PS100

FE SUBWOOFER



1400 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

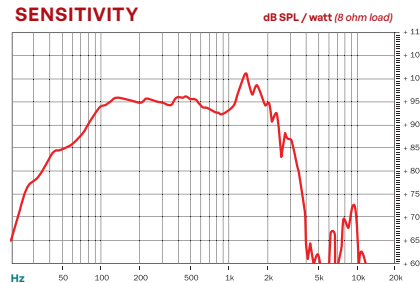
Double silicone
spider with optimized
compliance

95.5 dB
sensitivity

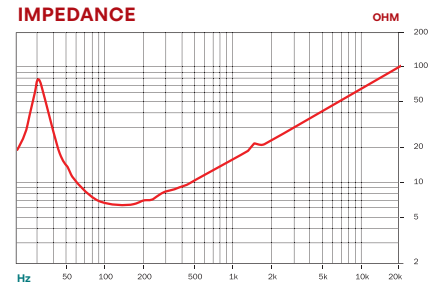
30 - 1000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	95.5 dB
Frequency Range	30 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	11 mm (0.4 in)
Flux Density	1.05 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	30 Hz
Re	5.3 Ω
Qes	0.41
Qms	4.6
Qts	0.39
Vas	245 dm³ (8.6 ft³)
Sd	1210 cm² (187.6 in²)
η ₀	1.6 %
X max	± 8 mm
X var	± 8 mm
Mms	202 g
Bl	22.5 T·m
Le	2.1 mH
EBP	73 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	197 mm (7.75 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	9.5 dm³ (0.33 ft³)
Net Weight	10.5 kg (23.1 lb)
Shipping Weight	12.1 kg (26.68 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18PS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18PZB100

FE SUBWOOFER



1400 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

Double silicone
spider with optimized
compliance

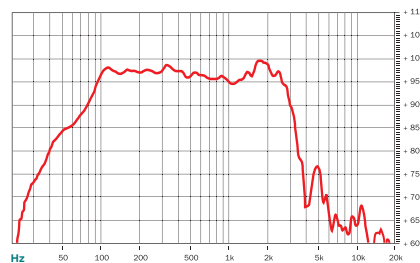
97 dB
sensitivity

40 - 2000 Hz
response



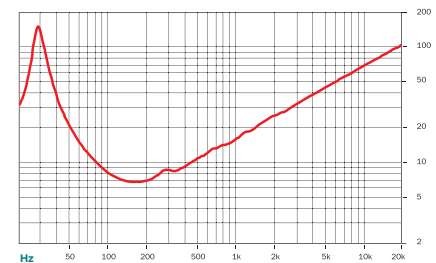
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	30 Hz
Re	5.3 Ω
Qes	0.25
Qms	8.8
Qts	0.24
Vas	297 dm³ (10.5 ft³)
Sd	1134 cm² (175.8 in²)
η _o	3.1 %
X max	± 8 mm
X var	± 8 mm
Mms	170 g
Bl	26 T·m
Le	2.1 mH
EBP	120 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	202 mm (7.95 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	9.5 dm³ (0.33 ft³)
Net Weight	12.1 kg (26.6 lb)
Shipping Weight	13.7 kg (30.2 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18PZB1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18TBX100

FE SUBWOOFER



2400 W
continuous program
power capacity

100 mm (4 in)
split winding
copper voice coil

97 dB
sensitivity

35 - 1000 Hz
response

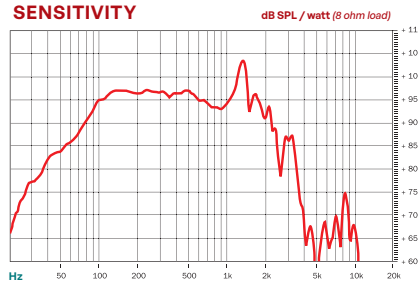
Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

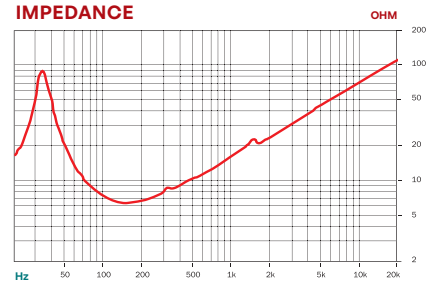
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	1200 W
Continuous Program ²	2400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.1 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	34 Hz
Re	5.1 Ω
Qes	0.37
Qms	7.2
Qts	0.35
Vas	212 dm³ (7.5 ft³)
Sd	1210 cm² (187.6 in²)
η _o	2.2 %
X max	± 9 mm
X var	± 11 mm
Mms	209 g
Bl	25.5 T·m
Le	1.6 mH
EBP	91 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	209 mm (8.2 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	10.5 dm³ (0.37 ft³)
Net Weight	13 kg (28.6 lb)
Shipping Weight	14.6 kg (32.2 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18TBX1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 100 to 1000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

18TBW100

FE SUBWOOFER



3000 W
continuous program
power capacity

100 mm (4 in)
split winding
copper voice coil

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

96 dB
sensitivity

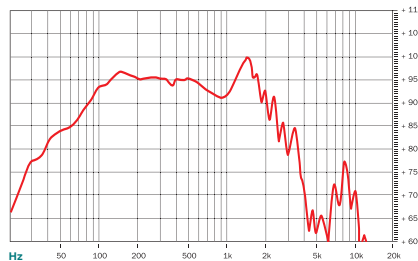
35 - 1000 Hz
response

Aluminium
demodulating ring
for very low distortion



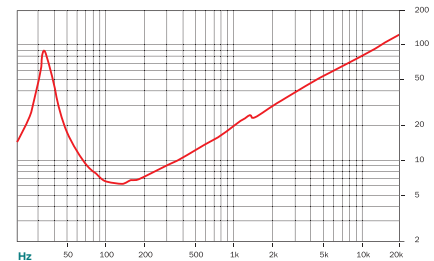
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1500 W
Continuous Program ²	3000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	31 mm (1.22 in)
Magnetic Gap Depth	15 mm (0.59 in)
Flux Density	1.15 T
Magnet Material	Ferrite Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	35 Hz
Re	5.3 Ω
Qes	0.41
Qms	8
Qts	0.39
Vas	175 dm³ (6.18 ft³)
Sd	1210 cm² (187.6 in²)
η ₀	1.76 %
X max	± 12 mm
X var	± 14 mm
Mms	245 g
Bl	26.4 T·m
Le	2.45 mH
EBP	85 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	442 mm (17.4 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	241 mm (9.5 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	11 dm³ (0.39 ft³)
Net Weight	15.1 kg (33.3 lb)
Shipping Weight	16.7 kg (36.8 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18TBW1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 1000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

B&C is a leader in the development of neodymium woofers for the professional audio market. Our HPL series, launched in 1998, was one of the first neodymium loudspeakers available. We have since expanded our use of neodymium to cover our entire range. In addition to having optimized frequency response curves, our newer woofers feature baskets that have been designed to maximize power handling, excursion, and heat dissipation.

The **NDL** series works with an inside slug high-energy neodymium magnet. It has been developed with a new ventilated magnet assembly to assist the cooling of the voice coil. NDL series woofers strike a balance between light weight and performance.

The **MDN** and **MBX** series are specifically designed for high output Mid-Bass applications, especially in compact enclosures. The more recent MBX parameters offer an ideal solution for two way systems, but are also an excellent choice for multi-driver applications, such as Line Array enclosures. The MBX series combines high sensitivity, linearity and excellent power handling. Low moving mass enables a precise and fast transient attack. Other features include a dedicated demodulation ring, ventilated voice coil gap, and new hydrophobic cone surface, offering extreme protection without increased moving mass.

The **NBX** and **NW** series feature a very high-energy neodymium magnet assembly. A specially designed double silicone spider offers excellent excursion control.

The **SW** series is the next generation of neodymium magnet subwoofers. We focused our energy on long, large diameter voice coils (4" to 6") for greater power handling and low power compression. In addition, we have developed new suspension systems to offer superb linearity with low DC offset, and industry-leading durability.

The most recent **DS** Series subwoofers feature high BI motors and four-layer aluminium voice coils, resulting in more energy in the gap, higher efficiency, lower distortion, and better overall performance in subwoofer applications. Now available with both 4.5" (115 mm) and 4" (100 mm) diameter Copper Clad Aluminium Wire voice coils.

The **NDF** and **NDS** series are a complete lineup of high sensitivity and power handling 4" frame transducers. These products represent the best performance for size available in small woofers today, and are made with our famously critical quality control, allowing new compact loudspeaker designs with appropriately scaled performance.

4NDF34

ND EXTENDED RANGE



200 W
continuous program
power capacity

34 mm (1.3 in)
copper voice coil

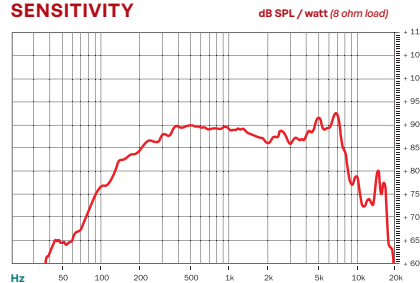
Neodymium magnet
allows a very light yet
powerful motor assembly

92 dB
sensitivity

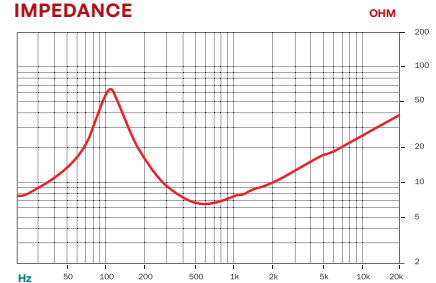
110 - 8000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	100 mm (4.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	110 - 8000 Hz
Voice Coil Diameter	34 mm (1.33 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	7 mm (0.28 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	110 Hz
Re	5.5 Ω
Qes	0.28
Qms	4.2
Qts	0.27
Vas	1.6 dm³ (0.06 ft³)
Sd	57 cm² (8.84 in²)
η _o	0.7 %
X max	± 3.8 mm
X var	± 5.7 mm
Mms	6.1 g
Bl	9.0 T·m
Le	0.23 mH
EBP	392 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	127 mm (5.0 in)
Bolt Circle Diameter	115 mm (4.53 in)
Baffle Cutout Diameter	103.0 mm (4.06 in)
Depth	66 mm (2.6 in)
Flange and Gasket Thickness	3 mm (0.12 in)
Air volume occupied by driver	0.25 dm³ (0.01 ft³)
Net Weight	0.57 kg (1.26 lb)
Shipping Weight	0.69 kg (1.51 lb)
Shipping Box	117 X 120 X 110 mm (4.61 X 4.72 X 4.33 in)
Service kit	RCK04NDF34

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 500 to 5000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



4NDS34

ND WOOFER

200 W
continuous program
power capacity

34 mm (1.3 in)
copper voice coil

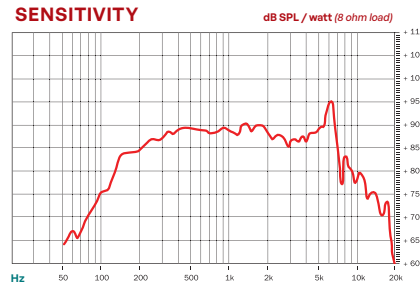
Neodymium magnet
allows a very light yet
powerful motor assembly

89 dB
sensitivity

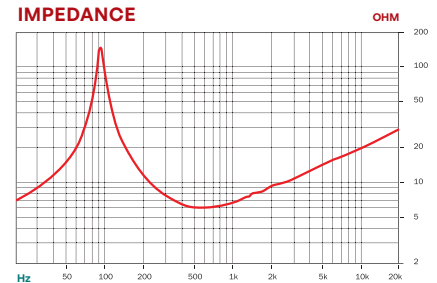
80 - 2000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	100 mm (3.94 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	89 dB
Frequency Range	80 - 2000 Hz
Voice Coil Diameter	34 mm (1.33 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	11.0 mm (0.43 in)
Magnetic Gap Depth	7.0 mm (0.28 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	79 Hz
Re	5.5 Ω
Qes	0.25
Qms	8.5
Qts	0.24
Vas	2.6 dm³ (0.09 ft³)
Sd	57.0 cm² (8.84 in²)
η _o	0.5 %
X max	± 3.8 mm
X var	± 5.0 mm
Mms	7.2 g
Bl	8.8 T·m
Le	0.21 mH
EBP	316 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	127 mm (5.0 in)
Bolt Circle Diameter	114 mm (4.51 in)
Baffle Cutout Diameter	103.0 mm (4.06 in)
Depth	67 mm (2.64 in)
Flange and Gasket Thickness	3 mm (0.12 in)
Air volume occupied by driver	0.25 dm³ (0.01 ft³)
Net Weight	0.57 kg (1.26 lb)
Shipping Weight	0.69 Kg (1.51 lb)
Shipping Box	117x120x110 mm (4.61x4.72x4.33 in)

Service kit **RCK04NDS348**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



5MDN38

ND MIDRANGE

200 W
continuous program
power capacity

38 mm (1.5 in)
aluminium voice coil

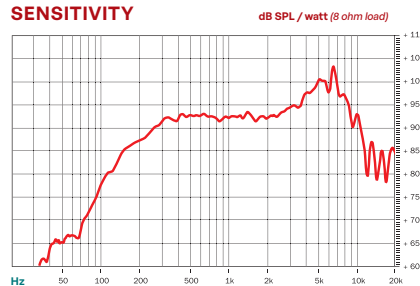
Shorting copper cap
for extended
HF response

96 dB
sensitivity

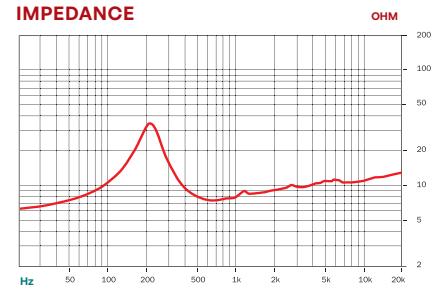
240 - 10000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	127 mm (5 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.0 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	240 - 10000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	10 mm (0.4 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.25 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	240 Hz
Re	5.6 Ω
Qes	0.54
Qms	2.6
Qts	0.45
Vas	0.6 dm³ (0.02 ft³)
Sd	95 cm² (14.7 in²)
η ₀	1.7 %
X max	± 3.5 mm
X var	± 2.5 mm
Mms	9 g
Bl	11.5 T·m
Le	0.4 mH
EBP	444 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	155 mm (6.1 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	75 mm (2.95 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.35 dm³ (0.01 ft³)
Net Weight	0.85 kg (1.9 lb)
Shipping Weight	1.05 kg (2.31 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK005MDN388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 7000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

5NSM38

ND MIDRANGE



220 W
continuous program
power capacity

38 mm (1.5 in)
aluminium voice coil

Ideal for Direct
Radiation and
Horn Loaded
Midrange application

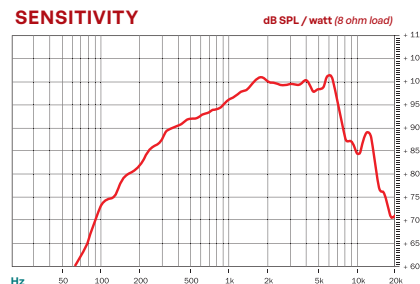
99 dB
sensitivity

300 - 3500 Hz
response

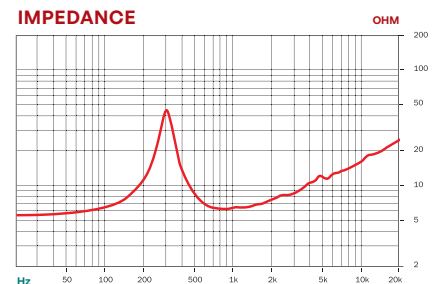
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	127 mm (5.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	110 W
Continuous Program ²	220 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	300 - 3500 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	7.0 mm (0.29 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.45 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front side

THIELE & SMALL PARAMETERS⁴

Fs	300 Hz
Re	5.3 Ω
Qes	0.99
Qms	4.1
Qts	0.79
Vas	0.3 dm³ (0.01 ft³)
Sd	95 cm² (14.73 in²)
η _o	1.15 %
X max	± 2.2 mm
X var	± 3.0 mm
Mms	9 g
Bl	10.1 T·m
Le	0.15 mH
EBP	303 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	157 mm (6.18 in)
Bolt Circle Diameter	142 mm (5.59 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	108 mm (4.25 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.2 dm³ (0.04 ft³)
Net Weight	1.37 kg (3.02 lb)
Shipping Weight	1.82kg (4.01 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Service kit	RCK005NSM388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 500 to 2500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



5NDL38

ND WOOFER

180 W
continuous program
power capacity

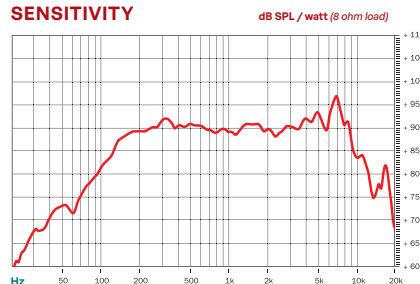
38 mm (1.5 in)
aluminium voice coil

91 dB
sensitivity

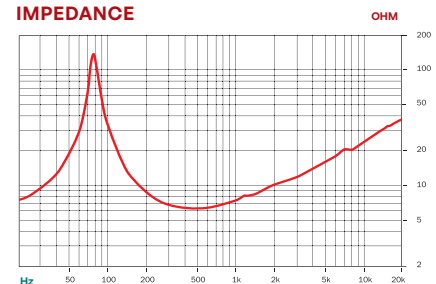
80 - 7000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	127 mm (5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	90 W
Continuous Program ²	180 W
Sensitivity (1W/1m) ³	91 dB
Frequency Range	80 - 7000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	10 mm (0.37 in)
Magnetic Gap Depth	6 mm (0.24 in)
Flux Density	1.25 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	80 Hz
Re	5.5 Ω
Qes	0.37
Qms	9.2
Qts	0.36
Vas	4.3 dm³ (0.15 ft³)
Sd	95 cm² (14.7 in²)
η _o	0.55 %
X max	± 3.5 mm
X var	± 4.0 mm
Mms	11 g
Bl	9.2 T·m
Le	0.64 mH
EBP	216 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	155 mm (6.1 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122.0 mm (4.8 in)
Depth	75 mm (2.95 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	0.35 dm³ (0.01 ft³)
Net Weight	0.85 kg (1.9 lb)
Shipping Weight	1.05 kg (2.31 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK005NDL388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

SPL from 100 to 7000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

6MDN44

ND MIDRANGE



400 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

96.5 dB
sensitivity

150 - 6000 Hz
response

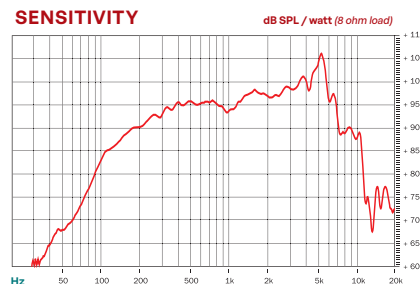
Neodymium magnet
allows a very
light yet powerful
motor assembly

Aluminium
demodulating ring
for very low distortion

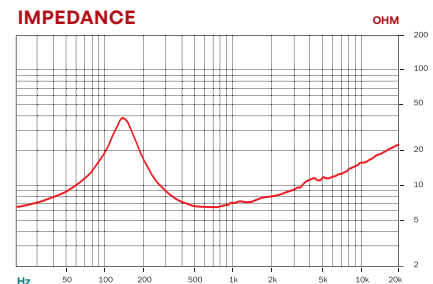
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	150 - 6000 Hz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	10 mm (0.37 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.45 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	140 Hz
Re	5.4 Ω
Qes	0.46
Qms	2.8
Qts	0.40
Vas	2.7 dm³ (0.09 ft³)
Sd	132 cm² (20.5 in²)
η ₀	1.6 %
X max	± 2.5 mm
X var	± 3.0 mm
Mms	11 g
Bl	11 T·m
Le	0.47 mH
EBP	304 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	145 mm (5.7 in)
Depth	73 mm (2.9 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	0.6 dm³ (0.02 ft³)
Net Weight	1.0 kg (2.2 lb)
Shipping Weight	1.2 kg (2.65 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06MDN448

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 500 to 5000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



6MBX44

ND MID-BASS

400 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

Neodymium magnet
allows a very
light yet powerful
motor assembly

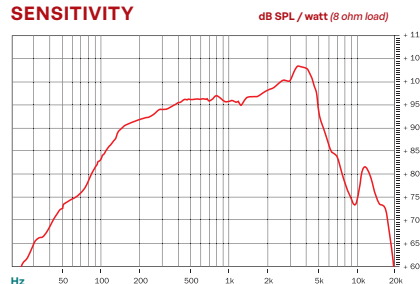
98 dB
sensitivity

115 - 5000 Hz
response

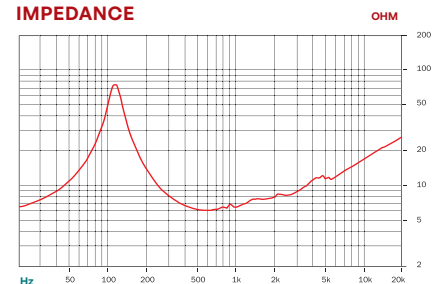
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	115 - 5000 Hz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	10 mm (0.37 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.55 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Impregnated Cone

THIELE & SMALL PARAMETERS⁴

Fs	113 Hz
Re	5.4 Ω
Qes	0.34
Qms	3.9
Qts	0.31
Vas	4.1 dm³ (0.14 ft³)
Sd	132 cm² (20.46 in²)
η _o	1.4 %
X max	± 3.5 mm
X var	± 3.0 mm
Mms	12 g
Bl	11.7 T·m
Le	0.2 mH
EBP	332 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.36 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	145 mm (5.7 in)
Depth	87 mm (3.43 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	0.63 dm³ (0.02 ft³)
Net Weight	1.5 kg (3.31 lb)
Shipping Weight	1.7 kg (3.75 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06MBX448

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



6NSM51

ND MIDRANGE

500 W
continuous program
power capacity

51 mm (2 in)
aluminium voice coil

Ideal for Direct
Radiation and
Horn Loaded
Midrange application

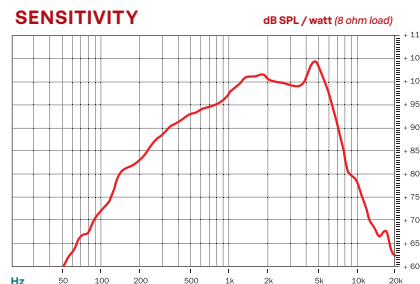
100 dB
sensitivity

300 - 6000 Hz
response

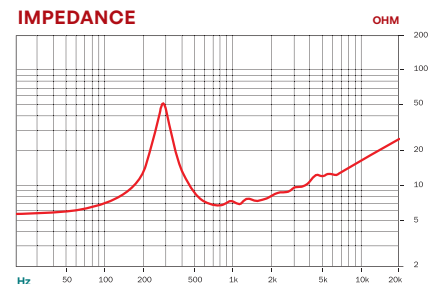
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	300 - 6000 Hz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	8.5 mm (0.33 in)
Magnetic Gap Depth	6.0 mm (0.24 in)
Flux Density	1.6 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	280 Hz
Re	5.4 Ω
Qes	0.68
Qms	5.4
Qts	0.6
Vas	0.7 dm ³ (0.02 ft ³)
Sd	143.0 cm ² (22.17 in ²)
η ₀	2.2 %
X max	± 2.8 mm
X var	± 3.0 mm
Mms	13.5 g
Bl	13.9 T·m
Le	0.15 mH
EBP	411 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.36 in)
Bolt Circle Diameter	172 mm (6.77 in)
Baffle Cutout Diameter	151.0 mm (5.94 in)
Depth	113 mm (4.45 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Air volume occupied by driver	2.0 dm ³ (0.07 ft ³)
Net Weight	2.7 kg (5.95 lb)
Shipping Weight	2.95 kg (6.5 lb)
Shipping Box	221x214x130 mm (8.70x8.43x5.12 in)
Service kit	RCK06NSM518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



6NDL38

ND WOOFER

300 W
continuous program
power capacity

38 mm (1.5 in)
copper voice coil

Neodymium magnet
allows a very
light yet powerful
motor assembly

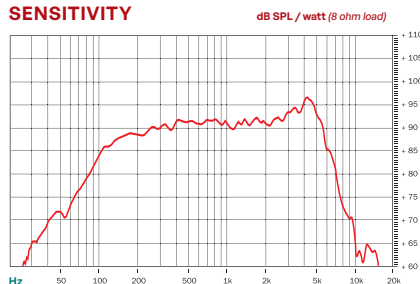
92 dB
sensitivity

70 - 6000 Hz
response

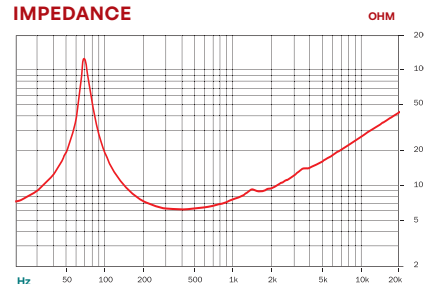
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	150 W
Continuous Program ²	300 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	70 - 6000 Hz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Copper
Former Material	Kapton
Winding Depth	12 mm (0.5 in)
Magnetic Gap Depth	6 mm (0.25 in)
Flux Density	1.15 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	72 Hz
Re	5.2 Ω
Qes	0.44
Qms	11.5
Qts	0.42
Vas	7 dm³ (0.25 ft³)
Sd	132 cm² (20.5 in²)
η ₀	0.6 %
X max	± 6 mm
X var	± 5.5 mm
Mms	17 g
Bl	9.5 T·m
Le	0.6 mH
EBP	163 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	145 mm (5.7 in)
Depth	85 mm (3.3 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	0.63 dm³ (0.02 ft³)
Net Weight	1.2 kg (2.6 lb)
Shipping Weight	1.4 kg (3.09 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Service kit	RCK06NDL388

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

SPL from 500 to 5000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



8NSM64

ND MIDRANGE

500 W
continuous program
power capacity

64 mm (2.52 in)
aluminium voice coil

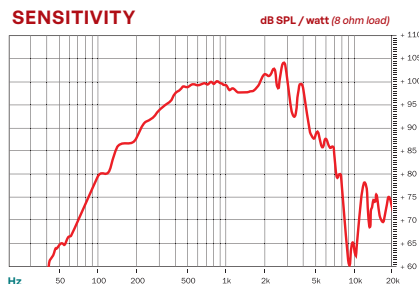
Ideal for Direct
Radiation and
Horn Loaded
Midrange application

100 dB
sensitivity

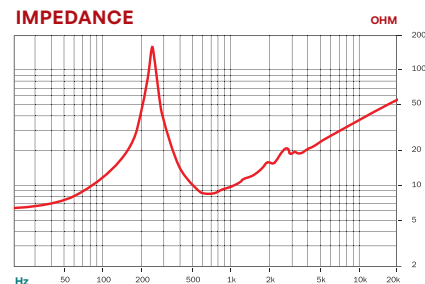
245 - 2000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.2 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	245 - 2000 Hz
Voice Coil Diameter	64 mm (2.52 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	13 mm (0.51 in)
Magnetic Gap Depth	10 mm (0.39 in)
Flux Density	1.55 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	245 Hz
Re	5.7 Ω
Qes	0.35
Qms	9.3
Qts	0.34
Vas	1.5 dm³ (0.05 ft³)
Sd	220 cm² (34.1 in²)
η ₀	4.5 %
X max	± 2.0 mm
X var	± 1.7 mm
Mms	19 g
Bl	22 T·m
Le	0.6 mH
EBP	700 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	239 mm (9.41 in)
Bolt Circle Diameter	222 mm (8.74 in)
Baffle Cutout Diameter	200 mm (7.87 in)
Depth	115 mm (4.53 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	4.58 kg (10.01 lb)
Shipping Weight	5.45 kg (12.02 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK008NSM648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



8MDN51

ND WOOFER

400 W
continuous program
power capacity

51 mm (2 in)
aluminium voice coil

Neodymium
ring magnet
assembly

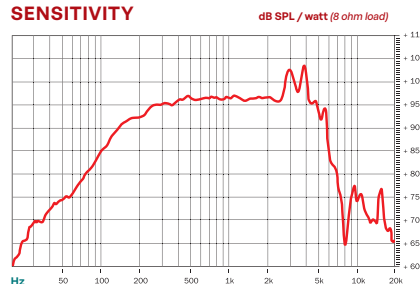
97 dB
sensitivity

70 - 4000 Hz
response

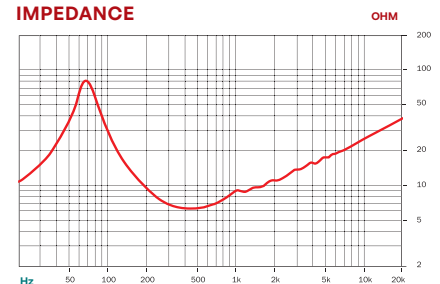
Ventilated voice
coil gap for
reduced power
compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	70 - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Former Material	Kapton
Winding Depth	16 mm (0.62 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.45 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	70 Hz
Re	5.1 Ω
Qes	0.21
Qms	3.7
Qts	0.2
Vas	16 dm ³ (0.6 ft ³)
Sd	220 cm ² (34.1 in ²)
η _o	2.4%
X max	± 6 mm
X var	± 6 mm
Mms	23 g
Bl	15.3 T·m
Le	0.8 mH
EBP	333 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	95 mm (3.74 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	1.1 dm ³ (0.04 ft ³)
Net Weight	2.55 kg (5.6 lb)
Shipping Weight	3.0 kg (6.61 lb)
Shipping Box	255x255x150mm (10.04x10.04x5.91 in)
Service kit	RCK008MDN518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 300 to 3000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



8NDL51

ND WOOFER

• **400 W**
• continuous program
• power capacity

• **51 mm (2 in)**
• copper voice coil

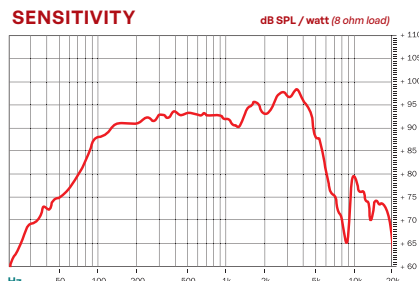
• **94 dB**
• sensitivity

• **65 - 3000 Hz**
• response

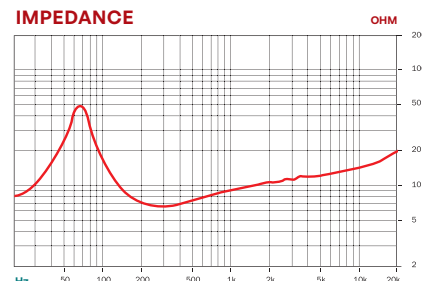
• Neodymium magnet
• allows a very
• light yet powerful
• motor assembly
• Shorting copper
• cap for extended
• HF response
• Ventilated voice
• coil gap for reduced
• power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	94 dB
Frequency Range	65 - 3000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	17 mm (0.67 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.05 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	66 Hz
Re	5.3 Ω
Qes	0.41
Qms	3.6
Qts	0.37
Vas	14 dm ³ (0.49 ft ³)
Sd	220 cm ² (34.1 in ²)
η ₀	1 %
X max	± 7 mm
X var	± 7 mm
Mms	28 g
Bl	12.4 T·m
Le	0.5 mH
EBP	160 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	90 mm (3.5 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	1.1 dm ³ (0.04 ft ³)
Net Weight	1.8 kg (4 lb)
Shipping Weight	2.25 kg (4.96 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008NDL518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

SPL from 300 to 3000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



8MBX51

ND MID-BASS

..... **400 W**
..... continuous program
..... power capacity

..... **51 mm (2 in)**
..... aluminium coil

..... Neodymium ring
..... magnet assembly

..... Aluminium
..... demodulating ring
..... for very low distortion

..... **96.5 dB**
..... sensitivity

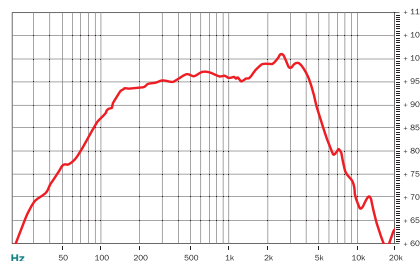
..... **60 - 4000 Hz**
..... response

..... Ventilated voice
..... coil gap for reduced
..... power compression



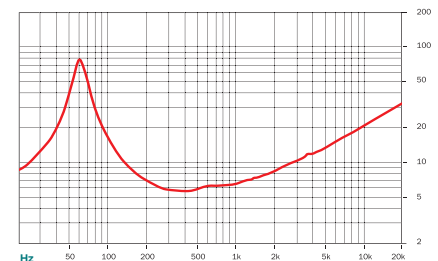
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	5.9 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	60 - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	15 mm (0.59 in)
Magnetic Gap Depth	7 mm (0.28 in)
Flux Density	1.3 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Impregnated Cone

THIELE & SMALL PARAMETERS⁴

Fs	60 Hz
Re	4.9 Ω
Qes	0.31
Qms	5.6
Qts	0.29
Vas	23 dm³ (0.81 ft³)
Sd	220 cm² (34.1 in²)
η _o	1.7 %
X max	± 6 mm
X var	± 8 mm
Mms	20 g
Bl	11.4 T·m
Le	0.4 mH
EBP	193 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.86 in)
Bolt Circle Diameter	210 mm (8.27 in)
Baffle Cutout Diameter	187 mm (7.36 in)
Depth	93 mm (3.7 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.1 dm³ (0.04 ft³)
Net Weight	1.8 kg (3.97 lb)
Shipping Weight	2.25 kg (4.96 in)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008MBX518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



8NW51 ND WOOFER

400 W
continuous program
power capacity

51 mm (2 in)
copper voice coil

96.5 dB
sensitivity

70 - 3000 Hz
response

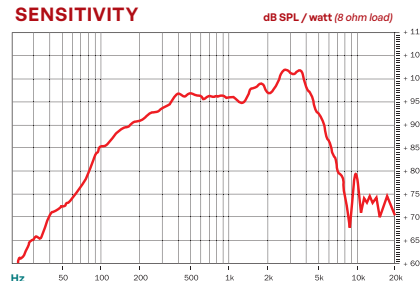
Neodymium ring magnet allows a very high force factor and linear excursion

Shorting copper cap for extended HF response

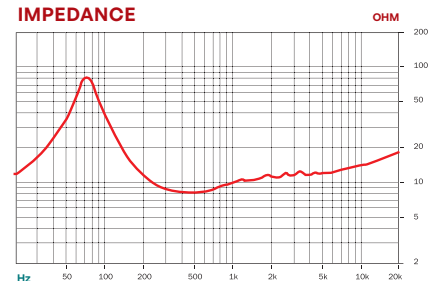
Ventilated voice coil gap for reduced power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	70 - 3000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.3 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	74 Hz
Re	5.2 Ω
Qes	0.19
Qms	2.7
Qts	0.17
Vas	11 dm³ (0.4 ft³)
Sd	220 cm² (34.1 in²)
η _o	2.4 %
X max	± 6 mm
X var	± 6 mm
Mms	28 g
Bl	18.9 T·m
Le	0.4 mH
EBP	389 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	100 mm (4 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Air volume occupied by driver	1.1 dm³ (0.04 ft³)
Net Weight	3 kg (6.6 lb)
Shipping Weight	3.45 kg (7.6 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008NW518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 400 to 2500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



8NDL64

ND WOOFER

700 W
continuous program
power capacity

64 mm (2.5 in)
copper voice coil

Neodymium inside
slug magnet assembly

Shorting copper
cap for extended
HF response

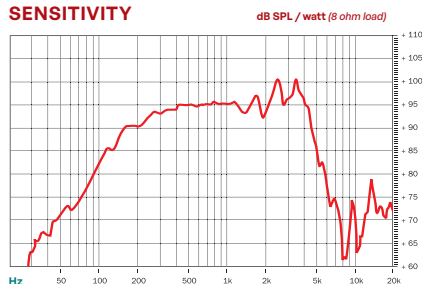
97 dB
sensitivity

80 - 4000 Hz
response

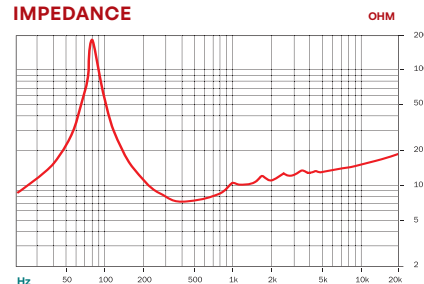
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	80 - 4000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	80 Hz
Re	5.4 Ω
Qes	0.25
Qms	10.91
Qts	0.25
Vas	9.6 dm³ (0.34 ft³)
Sd	220 cm² (34.1 in²)
η ₀	1.88 %
X max	± 4.5 mm
X var	± 5.0 mm
Mms	28 g
Bl	17.5 T·m
Le	0.62 mH
EBP	320 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	95 mm (3.74 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	2.8 kg (6.17 lb)
Shipping Weight	3.25 kg (7.17 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008NDL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



8BG51

ND WOOFER

500 W
continuous program
power capacity

51 mm (2 in)
copper voice coil

92 dB
sensitivity

50 - 4000 Hz
response

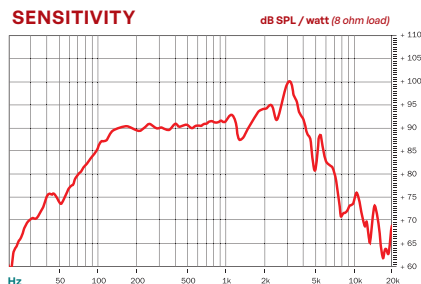
Neodymium magnet
allows a very
light yet powerful
motor assembly

Shorting copper
cap for extended
HF response

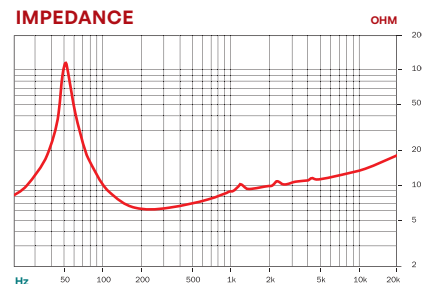
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	200 mm (8 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.0 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	92 dB
Frequency Range	50 - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	17 mm (0.65 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	52 Hz
Re	5.1 Ω
Qes	0.42
Qms	12.3
Qts	0.4
Vas	18 dm ³ (0.63 ft ³)
Sd	220 cm ² (34.1 in ²)
η _o	0.6 %
X max	± 6.5 mm
X var	± 8.0 mm
Mms	35 g
Bl	11.8 T·m
Le	0.5 mH
EBP	123 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	90 mm (3.5 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Air volume occupied by driver	1.1 dm ³ (0.04 ft ³)
Net Weight	1.8 kg (4.0 lb)
Shipping Weight	2.25 kg (4.96 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)
Service kit	RCK008BG518

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



10NSM76

ND MIDRANGE

800 W
continuous program
power capacity

76 mm (3 in)
aluminium voice coil

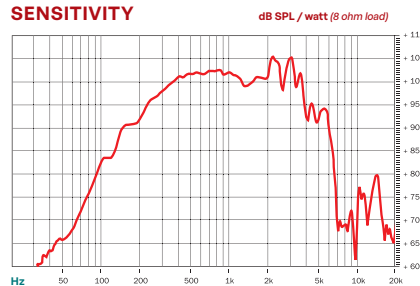
Ideal for Direct Radiation
and Horn Loaded
Midrange application

100 dB
sensitivity

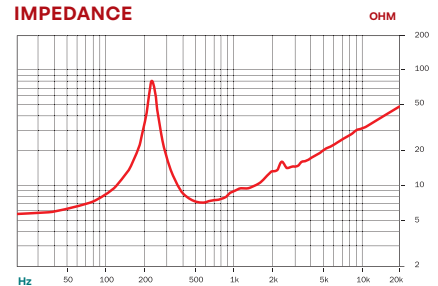
235 - 3500 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.0 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	235 - 3500 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	11 mm (0.45 in)
Magnetic Gap Depth	9 mm (0.35 in)
Flux Density	1.6 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	235 Hz
Re	5.2 Ω
Qes	0.55
Qms	8.6
Qts	0.52
Vas	2 dm³ (0.07 ft³)
Sd	320 cm² (49.6 in²)
η _o	4.5 %
X max	± 3.5 mm
X var	± 3.5 mm
Mms	33 g
Bl	21.5 T·m
Le	0.9 mH
EBP	427 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	291 mm (11.46 in)
Bolt Circle Diameter	274 mm (10.79 in)
Baffle Cutout Diameter	234 mm (9.21 in)
Depth	130 mm (5.12 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	5.0 dm³ (0.18 ft³)
Net Weight	4.56 kg (10.03 lb)
Shipping Weight	4.65 kg (10.25 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK10NSM768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

10MBX64

ND MID-BASS



700 W
continuous program
power capacity

64 mm (2.5 in)
aluminium voice coil

100 dB
sensitivity

65 - 6000 Hz
response

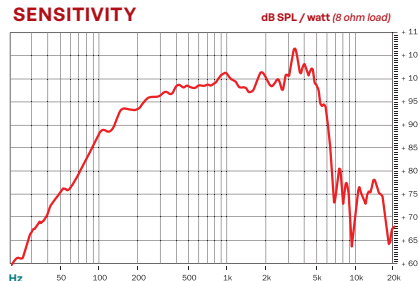
Neodymium inside
slug magnet assembly

Aluminium
demodulating ring
for very low distortion

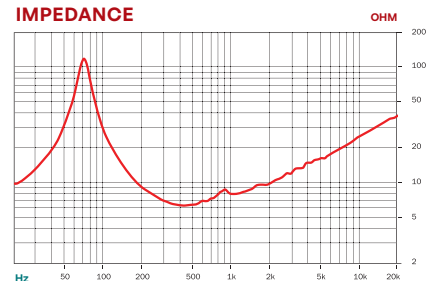
Ventilated voice coil
gap for reduced power
compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	65 - 6000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	12 mm (0.47 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Impregnated Cone

THIELE & SMALL PARAMETERS⁴

Fs	65 Hz
Re	5.5 Ω
Qes	0.27
Qms	5.6
Qts	0.26
Vas	28 dm³ (0.99 ft³)
Sd	346 cm² (53.63 in²)
η ₀	3.2 %
X max	± 4.0 mm
X var	± 5.5 mm
Mms	32 g
Bl	16.9 T·m
Le	0.39 mH
EBP	240 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.28 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (9 in)
Depth	125 mm (4.92 in)
Flange and Gasket Thickness	14 mm (0.5 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	3.2 kg (7.05 lb)
Shipping Weight	3.8 kg (8.38 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10MBX648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 300 to 3000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request



10CL64

ND WOOFER

500 W
continuous program
power capacity

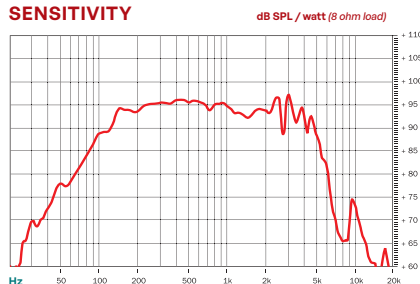
64 mm (2.5 in)
copper voice coil

96 dB
sensitivity

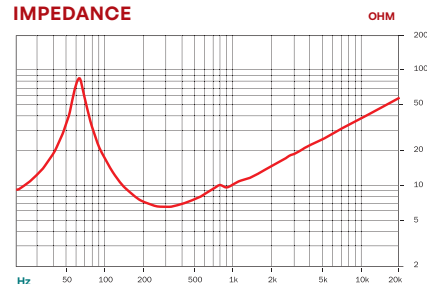
65 - 4000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	65 - 4000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	14.3 mm (0.56 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.16 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	63 Hz
Re	5.3 Ω
Qes	0.33
Qms	5.1
Qts	0.31
Vas	22.2 dm³ (0.78 ft³)
Sd	320 cm² (49.6 in²)
η _o	1.69 %
X max	± 5.2 mm
X var	± 6.0 mm
Mms	41.6 g
Bl	16.3 T·m
Le	1.17 mH
EBP	190 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	258 mm (10.16 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	232 mm (9.13 in)
Depth	112 mm (4.41 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Air volume occupied by driver	1.0 dm³ (0.04 ft³)
Net Weight	2.0 kg (4.41 lb)
Shipping Weight	2.6 kg (5.73 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10CL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

10CLA64

ND WOOFER



500 W
continuous program
power capacity

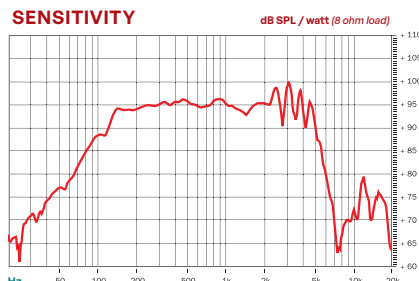
64 mm (2.5 in)
aluminium voice coil

96 dB
sensitivity

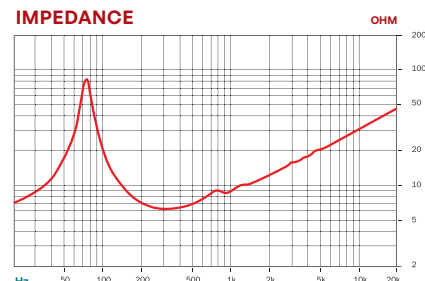
75 - 4000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	96.0 dB
Frequency Range	75 - 4000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	14.0 mm (0.55 in)
Magnetic Gap Depth	8.0 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	74 Hz
Re	5.5 Ω
Qes	0.45
Qms	6.8
Qts	0.42
Vas	18.5 dm³ (0.65 ft³)
Sd	320.0 cm² (49.6 in²)
η ₀	1.65 %
X max	± 5.0 mm
X var	± 5.0 mm
Mms	36.0 g
Bl	14.5 T·m
Le	0.9 mH
EBP	164 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	257 mm (10.12 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	232.0 mm (9.13 in)
Depth	111 mm (4.39 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	1.0 dm³ (0.04 ft³)
Net Weight	1.9 kg (4.19 lb)
Shipping Weight	2.5 kg (5.51 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10CLA648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available 10CL51 w/2" copper coil

10CLA76

ND WOOFER



800 W
continuous program
power capacity

76 mm (3 in)
aluminium voice coil

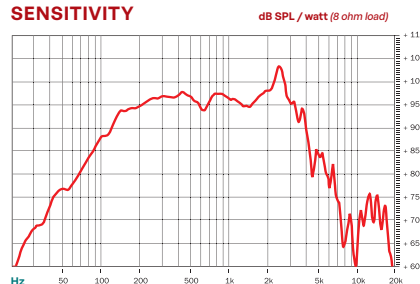
Ventilated voice
coil gap for reduced
power compression

96.5 dB
sensitivity

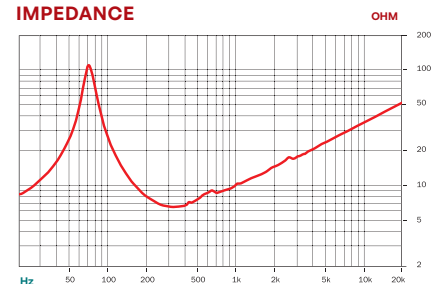
70 - 2500 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	70 - 2500 Hz
Voice Coil Diameter	76 mm (3.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	18.5 mm (0.73 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Side

THIELE & SMALL PARAMETERS⁴

Fs	71 Hz
Re	5.2 Ω
Qes	0.3
Qms	6.72
Qts	0.29
Vas	16.4 dm³ (0.58 ft³)
Sd	320 cm² (49.6 in²)
η _o	1.92 %
X max	± 6.5 mm
X var	± 7.0 mm
Mms	44.7 g
Bl	18.5 T·m
Le	1.14 mH
EBP	236 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	258 mm (10.16 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	232 mm (9.13 in)
Depth	122 mm (4.8 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Air volume occupied by driver	1.6 dm³ (0.06 ft³)
Net Weight	3.2 kg (7.05 lb)
Shipping Weight	3.8 kg (8.38 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10CLA768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



10HPL64

ND WOOFER

400 W
continuous program
power capacity

64 mm (2.5 in)
aluminium voice coil

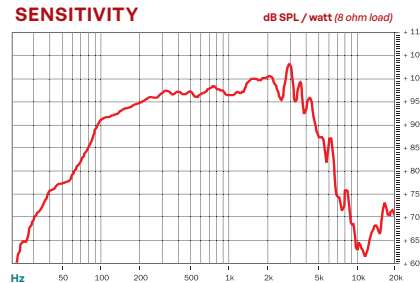
Neodymium magnet
allows a very light
yet powerful motor
assembly

98.5 dB
sensitivity

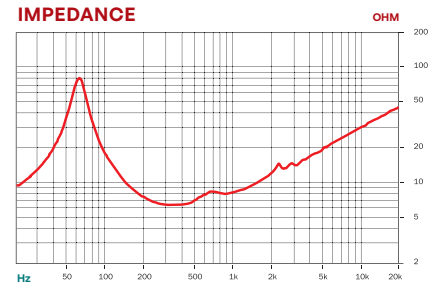
60 - 4000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	200 W
Continuous Program ²	400 W
Sensitivity (1W/1m) ³	98.5 dB
Frequency Range	60 - 4000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	12 mm (0.47 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	61 Hz
Re	5.4 Ω
Qes	0.33
Qms	4.5
Qts	0.31
Vas	32 dm³ (1.1 ft³)
Sd	320 cm² (50 in²)
η ₀	2.5 %
X max	± 4 mm
X var	± 5.5 mm
Mms	29 g
Bl	15 T·m
Le	0.5 mH
EBP	184 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (9.1 in)
Depth	122 mm (4.8 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	2 kg (4.4 lb)
Shipping Weight	2.6 kg (5.7 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK010HPL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 4000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 16 Ω, data upon request

10NDL64

ND WOOFER



500 W
continuous program
power capacity

64 mm (2.5 in)
aluminium voice coil

Neodymium magnet
allows a very
light yet powerful
motor assembly

97 dB
sensitivity

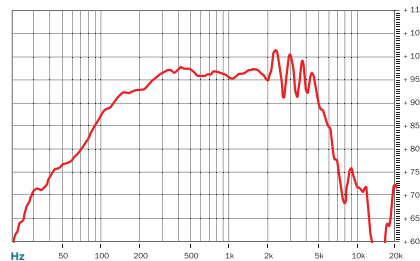
50 - 3000 Hz
response

Ventilated voice
coil gap for reduced
power compression



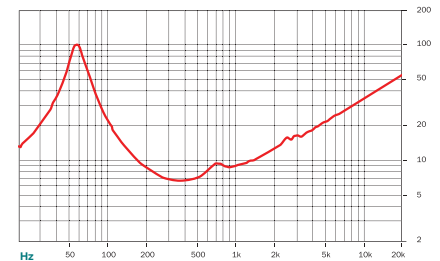
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	7 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	14 mm (0.55 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	56 Hz
Re	5.7 Ω
Qes	0.29
Qms	3.4
Qts	0.26
Vas	31 dm³ (1.1 ft³)
Sd	320 cm² (50 in²)
η ₀	1.8 %
X max	± 6 mm
X var	± 7 mm
Mms	37 g
Bl	16.2 T·m
Le	0.9 mH
EBP	193 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.64 in)
Baffle Cutout Diameter	230 mm (9.1 in)
Depth	113 mm (4.4 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	2.9 kg (6.4 lb)
Shipping Weight	3.5 kg (7.7 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10NDL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 300 to 3000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



10NW64

ND WOOFER

600 W
continuous program
power capacity

64 mm (2.5 in)
copper voice coil

96 dB
sensitivity

60 - 2500 Hz
response

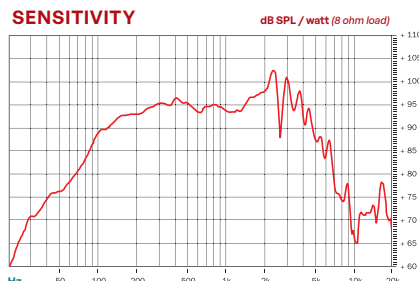
Neodymium magnet
allows a very
light yet powerful
motor assembly

Shorting copper
cap for extended
HF response

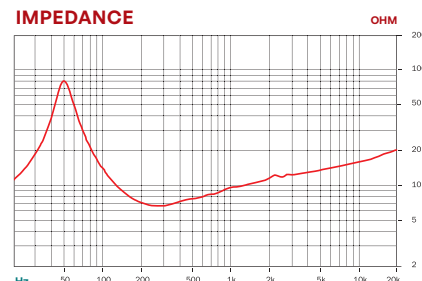
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	300 W
Continuous Program ²	600 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	60 - 2500 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	16 mm (0.62 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	59 Hz
Re	5.2 Ω
Qes	0.27
Qms	4.3
Qts	0.26
Vas	22.0 dm³ (0.78 ft³)
Sd	320 cm² (49.6 in²)
η _o	1.6 %
X max	± 6.0 mm
X var	± 5.5 mm
Mms	47 g
Bl	18.3 T·m
Le	0.65 mH
EBP	218 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (9.1 in)
Depth	113 mm (4.4 in)
Flange and Gasket Thickness	13 mm (0.5 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	2.9 kg (6.4 lb)
Shipping Weight	3.5 kg (7.7 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)

Service kit **RCK10NW648**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 250 to 2500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



10NW76

ND WOOFER

800 W

continuous program
power capacity

76 mm (3 in)

aluminium voice coil

96.5 dB

sensitivity

65 - 3500 Hz

response

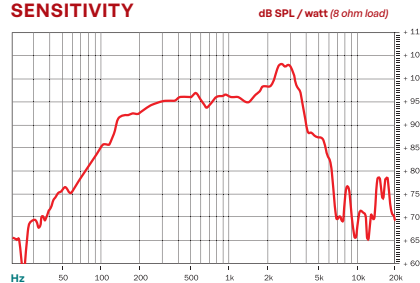
Neodymium magnet
allows a very
light yet powerful
motor assembly

Aluminium
demodulating ring for
very low distortion

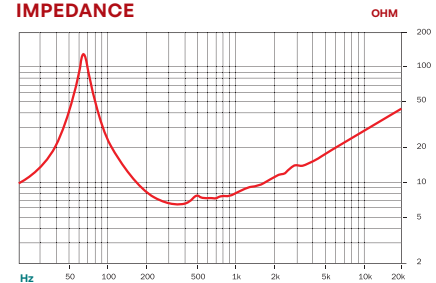
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	65 - 3500 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	18.5 mm (0.73 in)
Magnetic Gap Depth	10.0 mm (0.39 in)
Flux Density	1.35 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	67 Hz
Re	5.5 Ω
Qes	0.27
Qms	7.8
Qts	0.26
Vas	17.6 dm³ (0.62 ft³)
Sd	320.0 cm² (49.6 in²)
η ₀	1.85 %
X max	± 6.8 mm
X var	± 7.0 mm
Mms	47.0 g
Bl	20.0 T·m
Le	0.38 mH
EBP	248 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.28 in)
Bolt Circle Diameter	246 mm (9.69 in)
Baffle Cutout Diameter	233.0 mm (9.17 in)
Depth	119 mm (4.69 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	3.8 kg (8.38 lb)
Shipping Weight	4.4 kg (9.7 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Service kit	RCK10NW768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

10NDL88

ND WOOFER



1000 W
continuous program
power capacity

88 mm (3.5 in)
aluminium voice coil

96 dB
sensitivity

61 - 2500 Hz
response

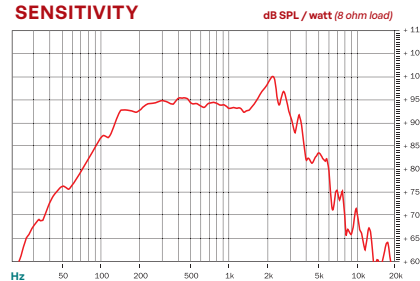
Neodymium magnet allows a very light yet powerful motor assembly

Aluminium demodulating ring for very low distortion

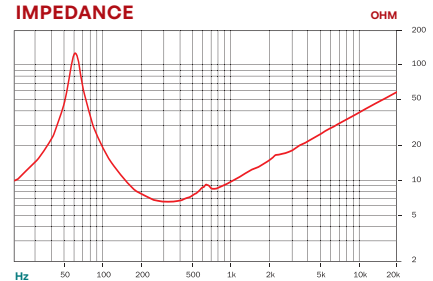
Ventilated voice coil gap for reduced power



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	61 - 2500 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21.7 mm (0.85 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.05 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Sides

THIELE & SMALL PARAMETERS⁴

Fs	61 Hz
Re	5.1 Ω
Qes	0.26
Qms	7.3
Qts	0.25
Vas	18.4 dm³ (0.65 ft³)
Sd	320 cm² (49.6 in²)
η _o	1.59 %
X max	± 8.1 mm
X var	± 8.0 mm
Mms	53.5 g
Bl	20.01 T·m
Le	1.18 mH
EBP	233 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.28 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	230 mm (9.06 in)
Depth	128 mm (5.04 in)
Flange and Gasket Thickness	15 mm (0.59 in)
Air volume occupied by driver	1.5 dm³ (0.05 ft³)
Net Weight	4.6 kg (10.14 lb)
Shipping Weight	5.2 kg (11.46 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 250 to 2500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



10BG76

ND WOOFER

1000 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

91.5 dB
sensitivity

49 - 800 Hz
response

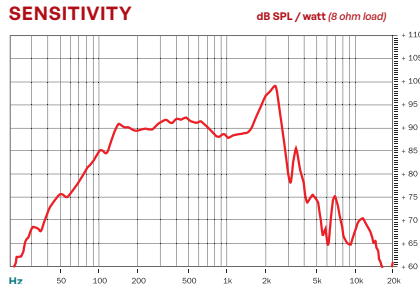
Neodymium magnet
allows a very
light yet powerful
motor assembly

Aluminium
demodulating ring for
very low distortion

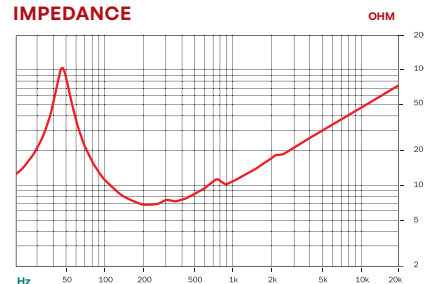
Double silicone spider
with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	250 mm (10.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.8 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	91.5 dB
Frequency Range	49 - 800 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25.0 mm (1 in)
Magnetic Gap Depth	11.5 mm (0.45 in)
Flux Density	1.22 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	TWP Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	49 Hz
Re	4.1 Ω
Qes	0.23
Qms	5.74
Qts	0.22
Vas	16.7 dm³ (0.59 ft³)
Sd	320.0 cm² (49.6 in²)
η ₀	0.86 %
X max	± 9.6 mm
X var	± 12.0 mm
Mms	91.4 g
Bl	22.4 T·m
Le	1.37 mH
EBP	213 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.28 in)
Bolt Circle Diameter	246 mm (9.69 in)
Baffle Cutout Diameter	233.0 mm (9.17 in)
Depth	131 mm (5.16 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	1.5 dm³ (0.05ft³)
Net Weight	4.8 kg (10.58 lb)

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 12BG100 w/copper coil



12CL64

ND WOOFER

500 W
continuous program
power capacity

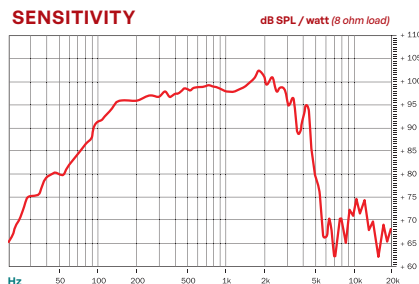
64 mm (2.5 in)
copper voice coil

98 dB
sensitivity

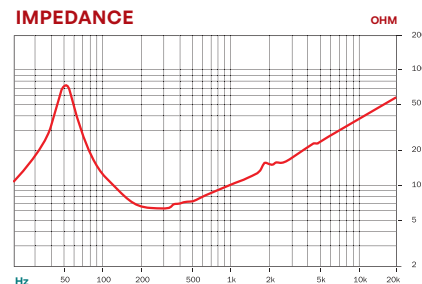
50 - 3000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	250 W
Continuous Program ²	500 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	13 mm (0.51 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	52 Hz
Re	5.5 Ω
Qes	0.32
Qms	4.3
Qts	0.3
Vas	64 dm³ (2.25 ft³)
Sd	522 cm² (80.9 in²)
η ₀	3.4 %
X max	± 4.5 mm
X var	± 6 mm
Mms	55 g
Bl	17.5 T·m
Le	1.1 mH
EBP	162 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	313 mm (12.32 in)
Bolt Circle Diameter	299 mm (11.77 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	133 mm (5.24 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air volume occupied by driver	2 dm³ (0.07 ft³)
Net Weight	1.9 kg (4.2 lb)
Shipping Weight	2.8 kg (6.17 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12CL648

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



12CLA76

ND WOOFER

700 W
continuous program
power capacity

76 mm (3 in)
aluminium voice coil

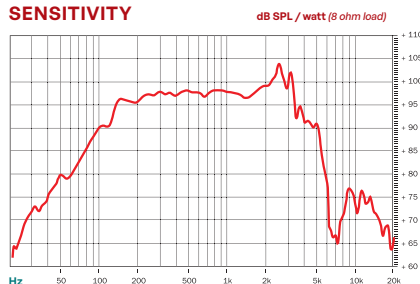
Ventilated voice coil
gap for reduced power
compression

98.5 dB
sensitivity

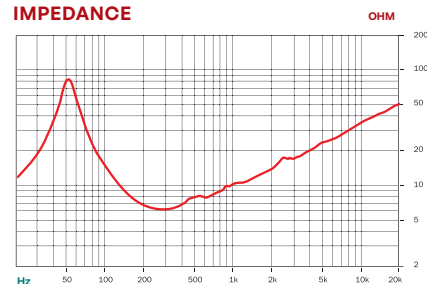
50 - 3000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	98.5 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	16.0 mm (0.63 in)
Magnetic Gap Depth	11.0 mm (0.43 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	52 Hz
Re	5.1 Ω
Qes	0.26
Qms	4.9
Qts	0.25
Vas	56.0 dm ³ (1.98 ft ³)
Sd	522.0 cm ² (80.91 in ²)
η ₀	2.9 %
X max	± 5.3 mm
X var	± 6.5 mm
Mms	64.0 g
Bl	20.2 T·m
Le	0.44 mH
EBP	200 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	313 mm (12.32 in)
Bolt Circle Diameter	299 mm (11.77 in)
Baffle Cutout Diameter	283.0 mm (11.14 in)
Depth	143 mm (5.63 in)
Flange and Gasket Thickness	9 mm (0.37 in)
Air volume occupied by driver	2.3 dm ³ (0.08 ft ³)
Net Weight	3.4 kg (7.5 lb)
Shipping Weight	4.3 kg (9.48 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12CLA768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available 12CL76 w/copper coil



12NDL76

ND WOOFER

800 W
continuous program
power capacity

76 mm (3 in)
aluminium voice coil

Neodymium magnet
allows a very
light yet powerful
motor assembly

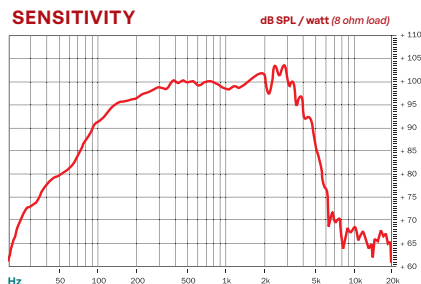
100 dB
sensitivity

50 - 2000 Hz
response

Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	400 W
Continuous Program ²	800 W
Sensitivity (1W/1m) ³	100 dB
Frequency Range	50 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	None

THIELE & SMALL PARAMETERS⁴

Fs	50 Hz
Re	5.3 Ω
Qes	0.21
Qms	4.2
Qts	0.2
Vas	73 dm³ (2.5 ft³)
Sd	522 cm² (80.9 in²)
η ₀	4.3 %
X max	± 7.0 mm
X var	± 6.5 mm
Mms	53 g
Bl	20.1 T·m
Le	1.0 mH
EBP	238 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	283 mm (11.1 in)
Depth	141 mm (5.5 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	2.5 dm³ (0.08 ft³)
Net Weight	3.9 kg (8.6 lb)
Shipping Weight	4.8 kg (10.58 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12NDL768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 300 to 3000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



12NW76

ND WOOFER

1000 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

98.5 dB
sensitivity

40 - 2000 Hz
response

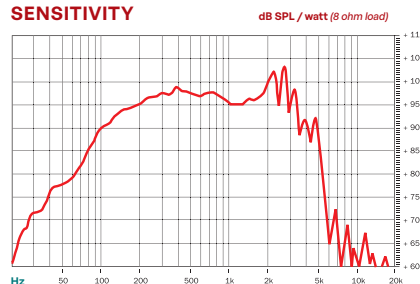
Neodymium ring magnet allows a very high force factor and linear excursion

Aluminium demodulating ring for very low distortion

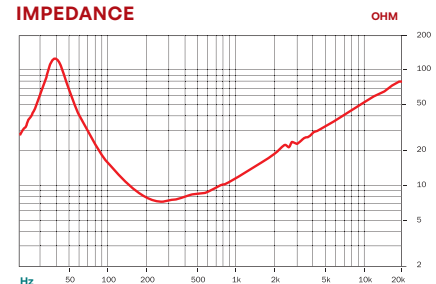
Ventilated voice coil gap for reduced power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.9 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	98.5 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.3 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	40 Hz
Re	5.3 Ω
Qes	0.17
Qms	3.7
Qts	0.16
Vas	76 dm³ (2.7 ft³)
Sd	522 cm² (80.9 in²)
η ₀	2.8 %
X max	± 8 mm
X var	± 10 mm
Mms	77 g
Bl	25.5 T·m
Le	1.25 mH
EBP	235 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	283 mm (11.1 in)
Depth	147 mm (5.8 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	2.5 dm³ (0.08 ft³)
Net Weight	4.9 kg (10.8 lb)
Shipping Weight	5.8 kg (12.79 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12NW768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 300 to 3000 Hz

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



12NDL88

ND WOOFER

1400 W
continuous program
power capacity

88 mm (3.5 in)
aluminium voice coil

98 dB
sensitivity

50 - 3000 Hz
response

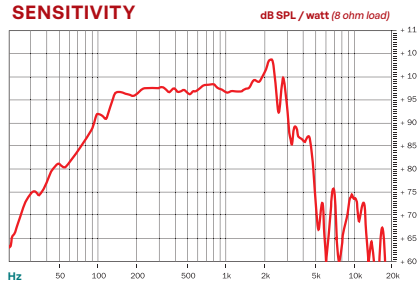
Aluminium demodulating ring for very low distortion

Double silicone spider with optimized compliance

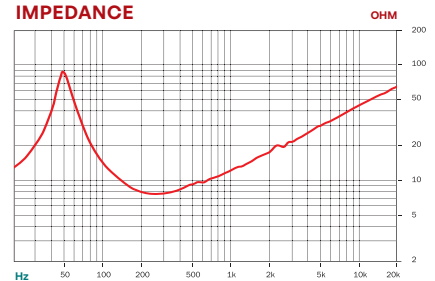
Ventilated voice coil gap for reduced power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21 mm (0.85 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.05 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	51 Hz
Re	5 Ω
Qes	0.29
Qms	5
Qts	0.27
Vas	52 dm³ (1.84 ft³)
Sd	522 cm² (80.9 in²)
η _o	2.3 %
X max	± 8 mm
X var	± 9.5 mm
Mms	71 g
Bl	19.9 T·m
Le	1.3 mH
EBP	175 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	140 mm (5.5 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	2.5 dm³ (0.08 ft³)
Net Weight	4.8 (10.58 lb)
Shipping Weight	5.7 kg (12.57 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12NDL888

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request

12BG76

ND SUBWOOFER



1000 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

92 dB
sensitivity

45 - 1000 Hz
response

FEA optimized
Neodymium
magnet assembly

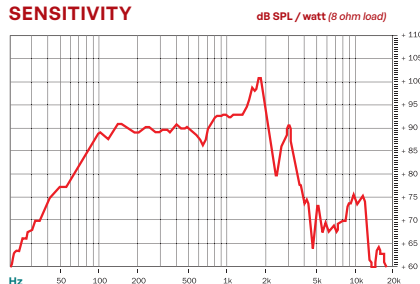
Aluminium
demodulating ring
for very low distortion

Double silicone spider
with optimized
compliance

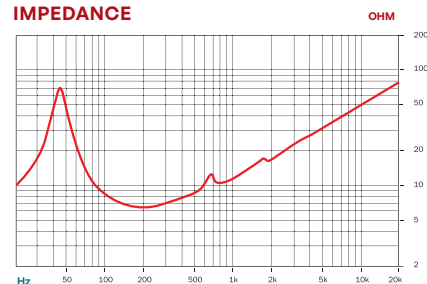
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	92.0 dB
Frequency Range	45 - 1000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25.0 mm (0.98 in)
Magnetic Gap Depth	11.5 mm (0.45 in)
Flux Density	1.25 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	44 Hz
Re	5.4 Ω
Qes	0.44
Qms	5.9
Qts	0.41
Vas	32.0 dm ³ (1.13 ft ³)
Sd	522.0 cm ² (80.91 in ²)
η ₀	0.65 %
X max	± 9.5 mm
X var	± 14.0 mm
Mms	148.0 g
Bl	22.7 T·m
Le	1.1 mH
EBP	100 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.73 in)
Baffle Cutout Diameter	284 mm (11.18 in)
Depth	159 mm (6.26 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	2.0 dm ³ (0.07 ft ³)
Net Weight	5.0 kg (11.02 lb)
Shipping Weight	5.9 kg (13.01 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12BG768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 12BG100 w/copper coil

12NBX100

ND SUBWOOFER



2000 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

96 dB
sensitivity

40 - 1500 Hz
response

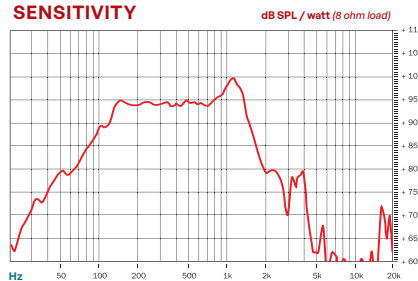
Aluminium
demodulating ring
for very low distortion

Double silicone
spider with optimized
compliance

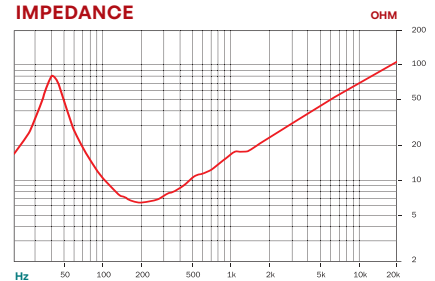
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	40 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.1 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	41 Hz
Re	5.1 Ω
Qes	0.24
Qms	3.9
Qts	0.22
Vas	51 dm ³ (1.8 ft ³)
Sd	531 cm ² (82 in ²)
η _o	1.45 %
X max	± 10 mm
X var	± 10 mm
Mms	117 g
Bl	25.6 T·m
Le	1.9 mH
EBP	170 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	320 mm (12.6 in)
Bolt Circle Diameter	300 mm (11.8 in)
Baffle Cutout Diameter	280 mm (11 in)
Depth	143 mm (5.63 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	4 dm ³ (0.14 ft ³)
Net Weight	8 kg (17.6 lb)
Shipping Weight	8.9 kg (19.62 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Service kit	RCK12NBX1008

Also available in 4 Ω, data upon request
Also available 12 NBX 100 - 4

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 1200 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



14NDL76

ND WOOFER

1000 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

Ventilated voice
coil gap for reduced
power compression

99 dB
sensitivity

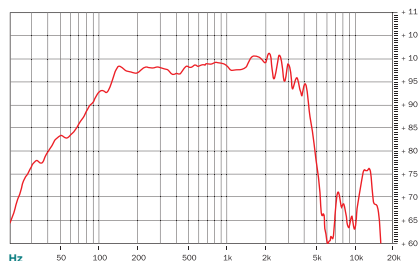
40 - 3000 Hz
response

Aluminium
demodulating ring
for very low distortion



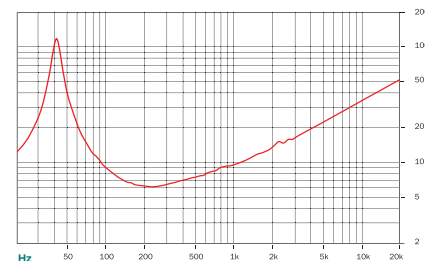
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	359 mm (13.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	40 - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	21 mm (0.83 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	41 Hz
Re	5 Ω
Qes	0.31
Qms	8.2
Qts	0.3
Vas	123 dm³ (4.34 ft³)
Sd	707 cm² (109.59 in²)
η ₀	2.7 %
X max	± 8 mm
X var	± 9.5 mm
Mms	85 g
Bl	19 T·m
Le	1.1 mH
EBP	132 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.1 in)
Bolt Circle Diameter	343 mm (13.5 in)
Baffle Cutout Diameter	323 mm (12.7 in)
Depth	161 mm (6.34 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3 dm³ (0.11 ft³)
Net Weight	4.5 kg (9.92 lb)
Shipping Weight	5.8 kg (12.79 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK14NDL768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

14NDL88

ND WOOFER



1400 W
continuous program
power capacity

88 mm (3.5 in)
aluminium voice coil

99 dB
sensitivity

45 - 3000 Hz
response

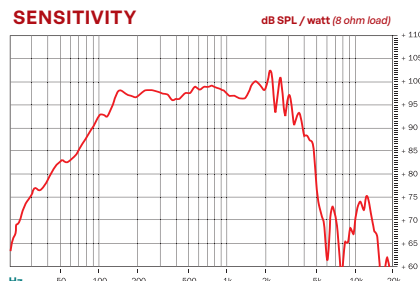
Ventilated voice
coil gap for reduced
power compression

Aluminium
demodulating ring
for very low distortion

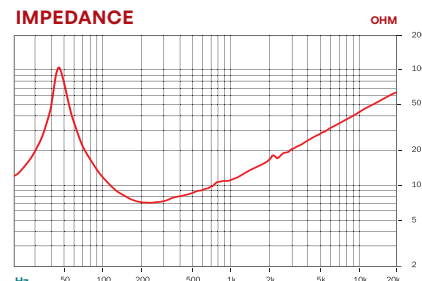
Double silicone
spider with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	359 mm (13.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	45 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21 mm (0.85 in)
Magnetic Gap Depth	10 mm (0.4 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	45 Hz
Re	5 Ω
Qes	0.31
Qms	7.8
Qts	0.3
Vas	102 dm³ (3.6 ft³)
Sd	707 cm² (109.6 in²)
η ₀	2.9 %
X max	± 8 mm
X var	± 9.5 mm
Mms	86 g
Bl	19.9 T·m
Le	1.2 mH
EBP	145 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.1 in)
Bolt Circle Diameter	343 mm (13.5 in)
Baffle Cutout Diameter	323 mm (12.7 in)
Depth	167 mm (6.57 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	4.7 kg (10.36 lb)
Shipping Weight	6.0 kg (13.23 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK14NDL888

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



14NA100

ND WOOFER

1600 W
continuous program
power capacity

100 mm (4 in)
aluminium voice coil

99 dB
sensitivity

45 - 2000 Hz
response

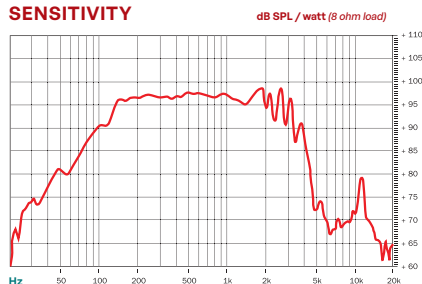
Aluminium demodulating ring for very low distortion

Double silicone spider with optimized compliance

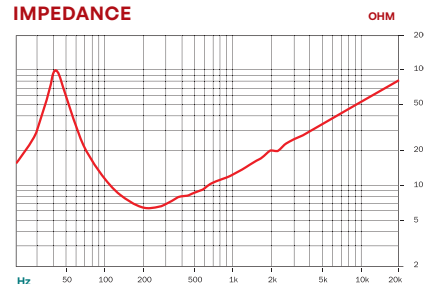
Ventilated voice coil gap for reduced power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	359 mm (14 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	800 W
Continuous Program ²	1600 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	45 - 2000 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	23.0 mm (0.91 in)
Magnetic Gap Depth	11.0 mm (0.43 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	43 Hz
Re	5.1 Ω
Qes	0.24
Qms	5.6
Qts	0.23
Vas	99.5 dm³ (3.51 ft³)
Sd	707 cm² (109.59 in²)
η ₀	3.1 %
X max	± 8.8 mm
X var	± 8.5 mm
Mms	96.5 g
Bl	23.5 T·m
Le	0.74 mH
EBP	179 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.13 in)
Bolt Circle Diameter	343 mm (13.5 in)
Baffle Cutout Diameter	324.0 mm (12.76 in)
Depth	176 mm (6.93 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	8.3 kg (18.3 lb)
Shipping Weight	9.6 kg (21.16 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK14NA1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15CLA76

ND WOOFER



700 W
continuous program
power capacity

76 mm (3 in)
Aluminium voice coil

Ventilated voice coil
gap for reduced power
compression

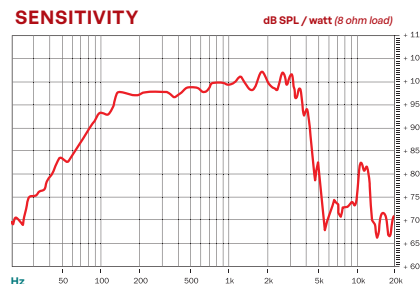
99 dB
sensitivity

40 - 3000 Hz
response

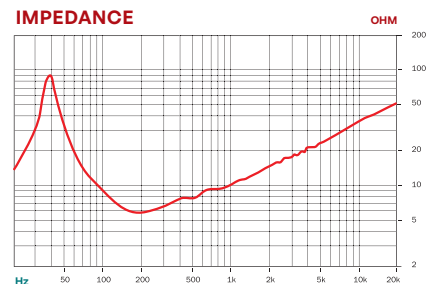
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.0 Ω
Power Handling	
Nominal (AES) ¹	350 W
Continuous Program ²	700 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	40 - 3000 Hz
Voice Coil Diameter	76 mm (3.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	16.0 mm (0.63 in)
Magnetic Gap Depth	11.0 mm (0.43 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	40 Hz
Re	5.2 Ω
Qes	0.31
Qms	6.9
Qts	0.3
Vas	176 dm³ (6.22 ft³)
Sd	855 cm² (132.53 in²)
η _o	3.5 %
X max	± 5.5 mm
X var	± 7.5 mm
Mms	93 g
Bl	19.8 T·m
Le	0.5 mH
EBP	129 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	388 mm (15.28 in)
Bolt Circle Diameter	374 mm (14.72 in)
Baffle Cutout Diameter	353.0 mm (13.9 in)
Depth	171 mm (6.73 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Air volume occupied by driver	4.4 dm³ (0.16 ft³)
Net Weight	3.9 kg (8.6 lb)
Shipping Weight	5.2 kg (11.46 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15CLA768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available 15CL76 copper coil



15NDL76

ND WOOFER

1000 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

Neodymium magnet
allows a very
light yet powerful
motor assembly

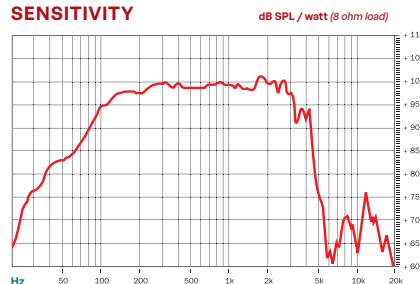
99.5 dB
sensitivity

40 - 2000 Hz
response

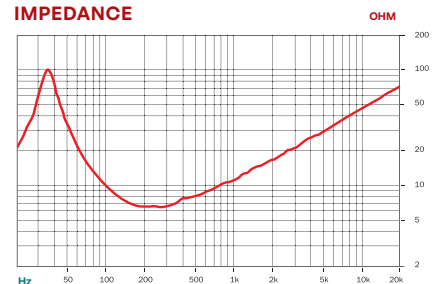
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ¹	500 W
Continuous Program ²	1000 W
Sensitivity (1W/1m) ³	99.5 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	18 mm (0.68 in)
Magnetic Gap Depth	11 mm (0.4 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	37 Hz
Re	5.3 Ω
Qes	0.24
Qms	4.5
Qts	0.22
Vas	195 dm³ (6.8 ft³)
Sd	855 cm² (132.5 in²)
η ₀	4.1 %
X max	± 7 mm
X var	± 9 mm
Mms	96 g
Bl	22.5 T·m
Le	1.5 mH
EBP	154 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	171 mm (6.7 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	4.6 kg (10.1 lb)
Shipping Weight	5.9 kg (13 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NDL768

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request



15NW76

ND WOOFER

1200 W
continuous program
power capacity

76 mm (3 in)
copper voice coil

100.5 dB
sensitivity

40 - 2000 Hz
response

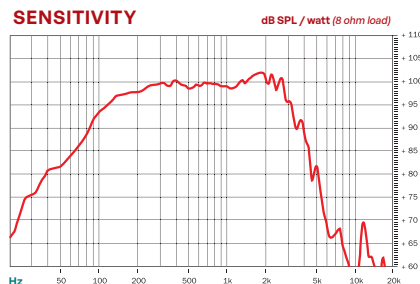
Aluminium demodulating ring for very low distortion

Neodymium ring magnet allows a very high force factor and linear excursion

Double silicone spider with optimized compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.9 Ω
Power Handling	
Nominal (AES) ¹	600 W
Continuous Program ²	1200 W
Sensitivity (1W/1m) ³	100.5 dB
Frequency Range	40 - 2000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	19 mm (0.75 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.3 T
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	42 Hz
Re	5.3 Ω
Qes	0.23
Qms	4.3
Qts	0.22
Vas	130 dm³ (4.5 ft³)
Sd	855 cm² (132.5 in²)
η _o	4.4 %
X max	± 8 mm
X var	± 10 mm
Mms	104 g
Bl	25.5 T·m
Le	1.25 mH
EBP	182 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	177 mm (7.0 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	3.7 dm³ (0.13 ft³)
Net Weight	5.6 kg (12.3 lb)
Shipping Weight	6.9 kg (15.21 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

Service kit **RCK15NW768**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



15NDL88

ND WOOFER

1400 W
continuous program
power capacity

88 mm (3.5 in)
aluminium voice coil

99 dB
sensitivity

45 - 3000 Hz
response

Double silicone
spider with optimized
compliance

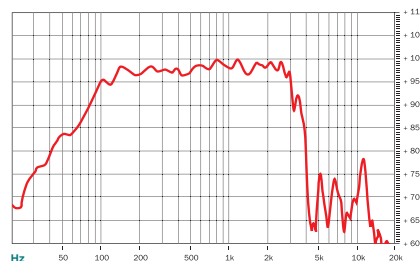
Aluminium
demodulating ring
for very low distortion

Ventilated voice
coil gap for reduced
power compression



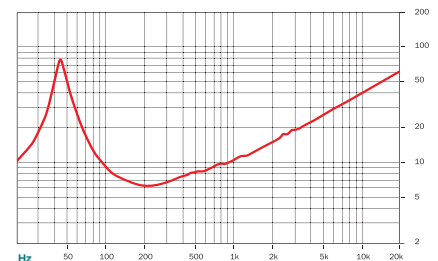
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	700 W
Continuous Program ²	1400 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	45 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	21 mm (0.85 in)
Magnetic Gap Depth	10 mm (0.39 in)
Flux Density	1.05 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	45 Hz
Re	5 Ω
Qes	0.36
Qms	6.1
Qts	0.34
Vas	126 dm³ (4.45 ft³)
Sd	855 cm² (132.5 in²)
η ₀	3.1 %
X max	± 8 mm
X var	± 10 mm
Mms	102 g
Bl	20.1 T·m
Le	1.25 mH
EBP	125 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	177 mm (6.97 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	3.5 dm³ (0.12 ft³)
Net Weight	4.6 kg (10.1 lb)
Shipping Weight	5.9 kg (13 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NDL888

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 and 16 Ω, data upon request



15N/A100

ND WOOFER

1600 W
continuous program
power capacity

100 mm (4 in)
aluminium voice coil

FEA optimized
Neodymium
magnet assembly

Double silicone
spider with optimized
compliance

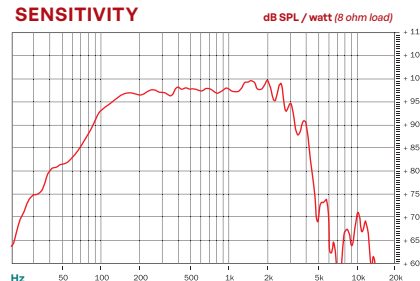
98 dB
sensitivity

45 - 2000 Hz
response

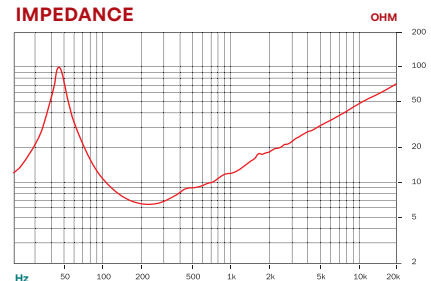
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ¹	800 W
Continuous Program ²	1600 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	45 - 2000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	23 mm (0.9 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Front Side

THIELE & SMALL PARAMETERS⁴

Fs	47 Hz
Re	5.1 Ω
Qes	0.29
Qms	6.1
Qts	0.28
Vas	88 dm³ (3.1 ft³)
Sd	855 cm² (132.5 in²)
η _o	2.9 %
X max	± 10 mm
X var	± 9 mm
Mms	136 g
Bl	26.3 T·m
Le	1.2 mH
EBP	162 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	180 mm (7.09 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	6 dm³ (0.21 ft³)
Net Weight	9.3 kg (20.5 lbs)
Shipping Weight	10.6 kg (23.37 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NA1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 200 to 2000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

15NBX100

ND SUBWOOFER



2000 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

97 dB
sensitivity

35 - 1500 Hz
response

Aluminium
demodulating ring
for very low distortion

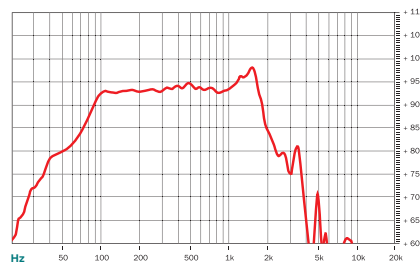
Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



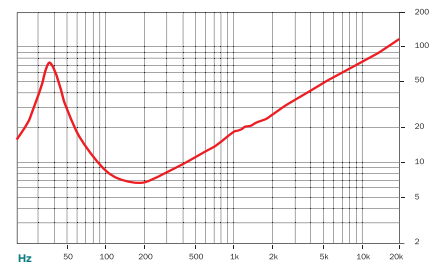
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	35 - 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1.0 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.1 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	36 Hz
Re	5.1 Ω
Qes	0.31
Qms	4.2
Qts	0.29
Vas	125 dm³ (4.4 ft³)
Sd	855 cm² (132.5 in²)
η _o	2 %
X max	± 10 mm
X var	± 10 mm
Mms	151 g
Bl	25 T·m
Le	2 mH
EBP	116 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	353 mm (13.9 in)
Depth	179 mm (7.05 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	6 dm³ (0.21 ft³)
Net Weight	9 kg (19.8 lb)
Shipping Weight	10.3 kg (22.7 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15NBX1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 1500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

15DS100

ND SUBWOOFER



3000 W
continuous program
power capacity

100 mm (4 in)
four layer aluminium
voice coil

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

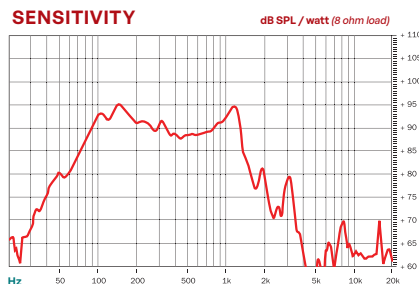
97 dB
sensitivity

39 - 1000 Hz
response

Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Power Handling	
Nominal (AES) ¹	1500 W
Continuous Program ²	3000 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	39 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	37 mm (1.46 in)
Magnetic Gap Depth	16 mm (0.63 in)
Flux Density	0.7 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	39 Hz
Re	4.5 Ω
Qes	0.27
Qms	7.75
Qts	0.26
Vas	76 dm³ (2.68 ft³)
Sd	855 cm² (132.53 in²)
η ₀	1.77 %
X max	± 14.5 mm
X var	± 14 mm
Mms	220 g
Bl	30.68 T·m
Le	4.6 mH
EBP	144 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	374 mm (16.7 in)
Baffle Cutout Diameter	353.0 mm (13.9 in)
Depth	190 mm (7.5 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	6 dm³ (0.21 ft³)
Net Weight	9.6 kg (21.16 lb)
Shipping Weight	10.9 kg (24.03 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15DS1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

15SW115

ND SUBWOOFER



3400 W
continuous program
power capacity

116 mm (4.5 in)
aluminium voice coil

96 dB
sensitivity

35 - 1500 Hz
response

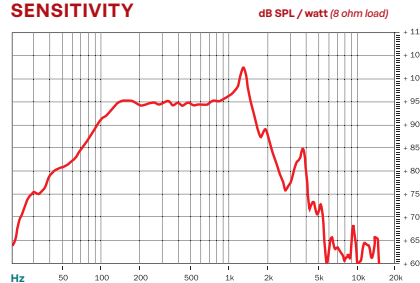
Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

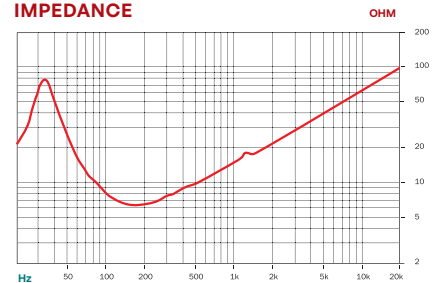
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	35 - 1500 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	34 mm (1.33 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	1.15 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	35 Hz
Re	5.2 Ω
Qes	0.25
Qms	4.4
Qts	0.24
Vas	110 dm³ (3.9 ft³)
Sd	855 cm² (132.5 in²)
η _o	1.8 %
X max	± 13.5 mm
X var	± 13 mm
Mms	200 g
Bl	30 T·m
Le	1.8 mH
EBP	140 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (16.7 in)
Baffle Cutout Diameter	353 mm (13.9 in)
Depth	193 mm (7.6 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	7 dm³ (0.25 ft³)
Net Weight	12 kg (26.4 lb)
Shipping Weight	13.3 kg (29.32 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

Service kit **RCK15SW1158**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 100 to 1000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

15DS115

ND SUBWOOFER



3200 W
continuous program
power capacity

116 mm (4.5 in)
four layer winding
aluminium voice coil

97 dB
sensitivity

35 - 1000 Hz
response

Neodymium magnet allows a very high force factor and linear excursion

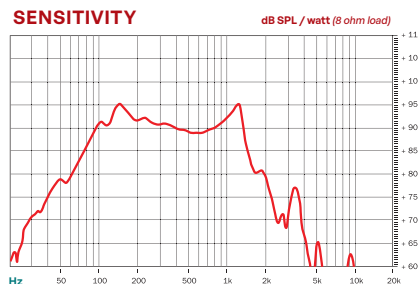
Double silicone spider with optimized compliance

Ventilated voice coil gap for reduced power compression

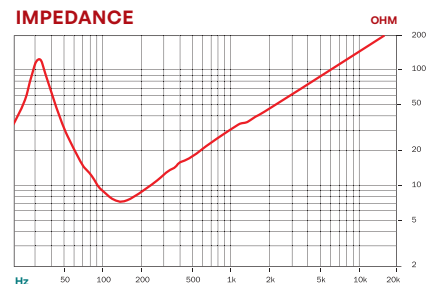
Aluminium demodulating ring for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ¹	1600 W
Continuous Program ²	3200 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	40.0 mm (1.57 in)
Magnetic Gap Depth	14.0 mm (0.55 in)
Flux Density	0.8 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	33 Hz
Re	4.9 Ω
Qes	0.18
Qms	5.2
Qts	0.17
Vas	94 dm³ (3.32 ft³)
Sd	855 cm² (132.53 in²)
η ₀	1.9 %
X max	± 16.5 mm
X var	± 14 mm
Mms	254 g
Bl	38.7 T·m
Le	4.5 mH
EBP	183 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	375 mm (14.8 in)
Baffle Cutout Diameter	354 mm (13.94 in)
Depth	199 mm (7.83 in)
Flange and Gasket Thickness	15 mm (0.59 in)
Air volume occupied by driver	7 dm³ (0.25 ft³)
Net Weight	11.6 kg (25.57 lb)
Shipping Weight	12.9 kg (28.44 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15DS1158

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request



15BG100

ND SUBWOOFER

2000 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

94.5 dB
sensitivity

35 - 1000 Hz
response

Aluminium
demodulating ring
for very low distortion

FEA optimized
Neodymium
magnet assembly

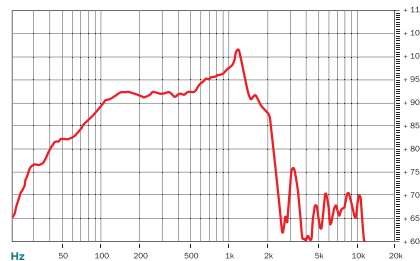
Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression



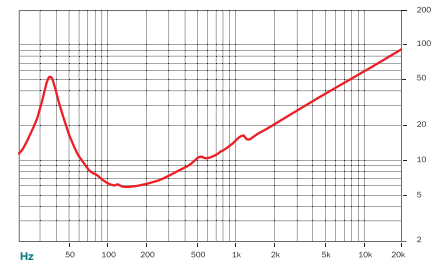
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	380 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	1000 W
Continuous Program ²	2000 W
Sensitivity (1W/1m) ³	94.5 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	27 mm (1.06 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.25 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	36 Hz
Re	5.1 Ω
Qes	0.49
Qms	5.0
Qts	0.44
Vas	83 dm³ (2.93 ft³)
Sd	855 cm² (132.5 in²)
η ₀	0.8 %
X max	± 10.5 mm
X var	± 14 mm
Mms	240 g
Bl	23 T·m
Le	1.6 mH
EBP	73 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.9 in)
Depth	189 mm (7.45 in)
Flange and Gasket Thickness	24 mm (0.94 in)
Air volume occupied by driver	6 dm³ (0.21 ft³)
Net Weight	8.6 kg (18.9 lb)
Shipping Weight	9.9 kg (21.83 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Service kit	RCK15BG1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 100 to 500Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18NBX100

ND SUBWOOFER



2400 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

96.5 dB
sensitivity

35 - 1000 Hz
response

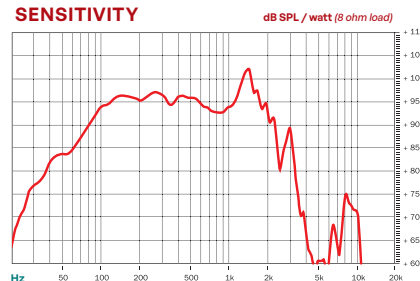
Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

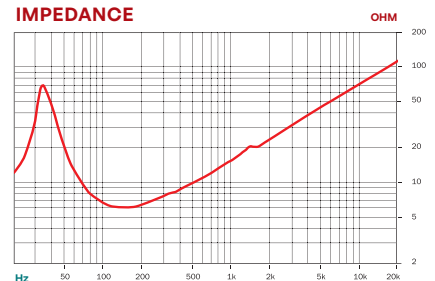
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Power Handling	
Nominal (AES) ¹	1200 W
Continuous Program ²	2400 W
Sensitivity (1W/1m) ³	96.5 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.1 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	35 Hz
Re	5.2 Ω
Qes	0.4
Qms	5.6
Qts	0.38
Vas	198 dm³ (7 ft³)
Sd	1210 cm² (187.6 in²)
η _o	2 %
X max	± 10 mm
X var	± 12 mm
Mms	217 g
Bl	24.8 T·m
Le	1.85 mH
EBP	87 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	208 mm (8.19 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Air volume occupied by driver	8.5 dm³ (0.3 ft³)
Net Weight	9.3 kg (20.5 lb)
Shipping Weight	10.9 kg (24.03 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)

Service kit **RCK18NBX1008**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 100 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18NW100

ND SUBWOOFER



2400 W
continuous program
power capacity

100 mm (4 in)
copper voice coil

98 dB
sensitivity

35 - 1000 Hz
response

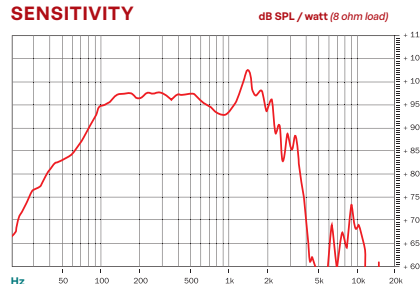
FEA optimized
Neodymium magnet
assembly allows
the highest force
factor and excursion
capability

Double silicone
spider with optimized
compliance

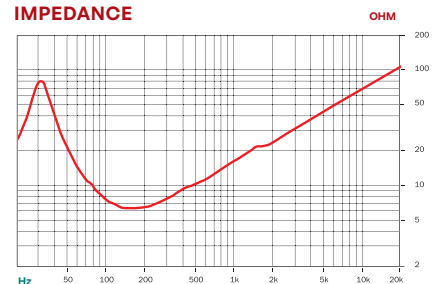
Ventilated voice
coil gap for reduced
power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	1200 W
Continuous Program ²	2400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	35 - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	25 mm (1 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	31 Hz
Re	5.1 Ω
Qes	0.27
Qms	4.2
Qts	0.26
Vas	252 dm³ (8.9 ft³)
Sd	1210 cm² (187.6 in²)
η _o	2.7 %
X max	± 9 mm
X var	± 11 mm
Mms	211 g
Bl	28 T·m
Le	1.7 mH
EBP	114 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	440 mm (17.3 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	209 mm (8.2 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Air volume occupied by driver	8.5 dm³ (0.03 ft³)
Net Weight	9.3 kg (20.5 lb)
Shipping Weight	10.9 kg (24.03 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Service kit	RCK18NW1008

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 100 to 1000Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18DS100

ND SUBWOOFER



3000 W
continuous program
power capacity

100 mm (4 in)
aluminium voice coil

97.5 dB
sensitivity

34 - 1000 Hz
response

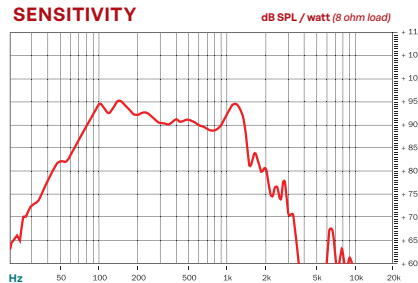
Aluminium demodulating ring for very low distortion

Double silicone spider with optimized compliance

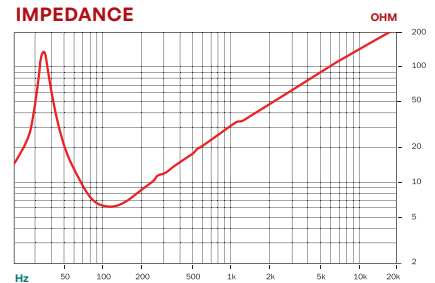
Ventilated voice coil gap for reduced power compression



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Power Handling	
Nominal (AES) ¹	1500 W
Continuous Program ²	3000 W
Sensitivity (1W/1m) ³	97.5 dB
Frequency Range	34 - 1000 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	37 mm (1.46 in)
Magnetic Gap Depth	16 mm (0.63 in)
Flux Density	0.7 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	34 Hz
Re	4.5 Ω
Qes	0.3
Qms	9.5
Qts	0.29
Vas	155 dm³ (5.47 ft³)
Sd	1210 cm² (187.55 in²)
η ₀	2.1 %
X max	± 14.5 mm
X var	± 14 mm
Mms	278 g
Bl	30 T·m
Le	4.4 mH
EBP	113 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	443 mm (17.44 in)
Baffle Cutout Diameter	422.0 mm (16.61 in)
Depth	239 mm (9.41 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	10 dm³ (0.35 ft³)
Net Weight	10.5 kg (23.15 lb)
Shipping Weight	12.3 kg (27.12 lb)
Shipping Box	500x500x300 mm (19.69x19.69x11.81 in)

Service kit **RCK18DS1008**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18SW115

ND SUBWOOFER



3400 W
continuous program
power capacity

116 mm (4.5 in)
split winding
copper voice coil

97 dB
sensitivity

35 - 1500 Hz
response

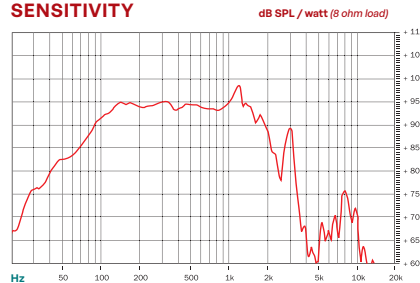
Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

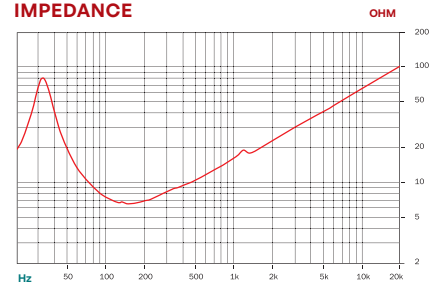
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	35-1500 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	34 mm (1.33 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	1.16 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	32 Hz
Re	5.3 Ω
Qes	0.32
Qms	5.6
Qts	0.3
Vas	187.0 dm³ (6.5 ft³)
Sd	1210 cm² (187.6 in²)
η ₀	1.9 %
X max	± 14 mm
X var	± 16 mm
Mms	275 g
Bl	30.3 T·m
Le	1.9 mH
EBP	100 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	443 mm (17.4 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	242 mm (9.5 in)
Flange and gasket thickness	16 mm (0.62 in)
Air volume occupied by driver	10.5 dm³ (0.37 ft³)
Net Weight	11.9 Kg (26.2 lb)
Shipping Weight	13.7 kg (30.2 lb)
Shipping Box	500x500x300 mm (19.68x19.68x11.81 in)
Service kit	RCK18SW1158

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 150 to 1500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

18DS115

ND SUBWOOFER



3400 W
continuous program
power capacity

116 mm (4.5 in)
four layer winding
aluminium voice coil

98 dB
sensitivity

30 - 500 Hz
response

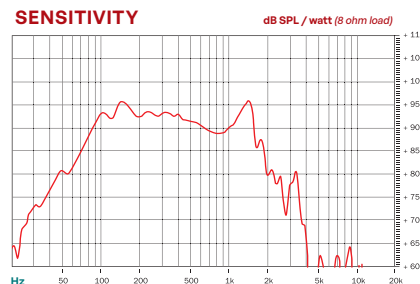
Double silicone spider
with optimized
compliance

Ventilated voice coil
gap for reduced power
compression

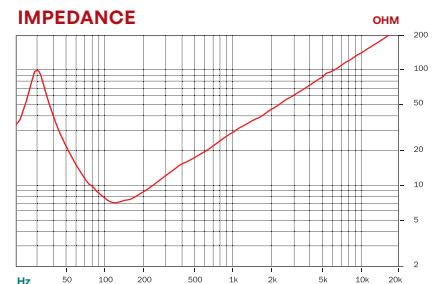
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	7 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	98 dB
Frequency Range	30 - 500 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	40 mm (1.57 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	0.8 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	30 Hz
Re	5.0 Ω
Qes	0.21
Qms	4.3
Qts	0.2
Vas	168 dm³ (5.93 ft³)
Sd	1210 cm² (187.55 in²)
η ₀	2.2 %
X max	± 16.5 mm
X var	± 14 mm
Mms	330 g
Bl	39 T·m
Le	3.85 mH
EBP	142 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	440 mm (17.32 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	248 mm (9.76 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	10 dm³ (0.35 ft³)
Net Weight	12 kg (26.46 lb)
Shipping Weight	13.6 kg (29.98 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)

Service kit **RCK18DS1158**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 100 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request

181PAL

ND SUBWOOFER



3400 W
continuous program
power capacity

116 mm (4.5 in)
split winding
aluminium voice coil

97 dB
sensitivity

32 - 1000 Hz
response

Double silicone spider
with optimized
compliance

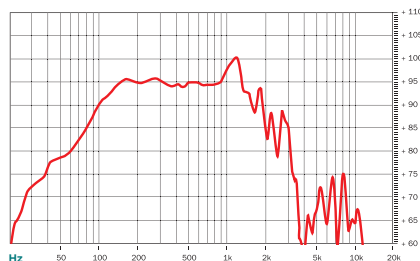
Ventilated voice coil
gap for reduced power
compression

Aluminium
demodulating ring
for very low distortion



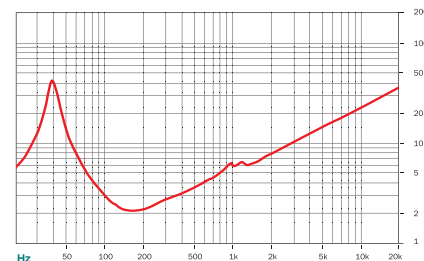
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	2 Ω
Minimum Impedance	2.1 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	97 dB
Frequency Range	32 - 1000 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	44 mm (1.7 in)
Magnetic Gap Depth	12 mm (0.47 in)
Flux Density	1.5 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	32 Hz
Re	1.3 Ω
Qes	0.14
Qms	4.2
Qts	0.14
Vas	164 dm³ (5.8 ft³)
Sd	1210 cm² (187.6 in²)
η ₀	3.3 %
X max	± 20.0 mm
X var	± 15 mm
Mms	330 g
Bl	24.5 T·m
Le	0.65 mH
EBP	228 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18.0 in)
Bolt Circle Diameter	443 mm (17.4 in)
Baffle Cutout Diameter	422 mm (16.6 in)
Depth	261 mm (10.28 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	10.5 dm³ (0.37 ft³)
Net Weight	15.35 kg (33.84 lb)
Shipping Weight	17.65 Kg (38.91 lb)
Shipping Box	570x570x320 mm (22.44x22.44x12.60 in)

Service kit **RCK181PALM**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 1.42 V for 2 ohms Nominal Impedance

Average SPL from 100 to 1000 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

21DS115

ND SUBWOOFER



3400 W
continuous program
power capacity

116 mm (4.5 in)
four layer winding
aluminium voice coil

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

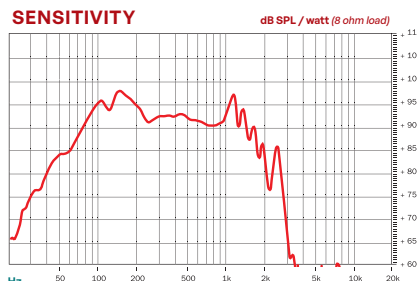
99 dB
sensitivity

30 - 1000 Hz
response

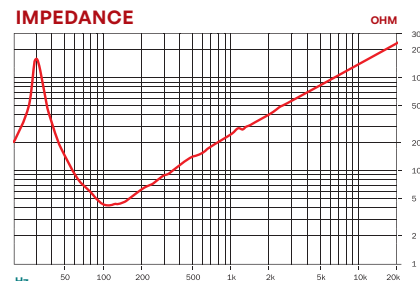
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	530 mm (21 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ¹	1700 W
Continuous Program ²	3400 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	30 - 1000 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	36 mm (1.42 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	0.8 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	30 Hz
Re	5.1 Ω
Qes	0.24
Qms	10.0
Qts	0.23
Vas	269.0 dm³ (9.5 ft³)
Sd	1680 cm² (260.4 in²)
η _o	3.0 %
X max	± 15 mm
X var	± 16.5 mm
Mms	407 g
Bl	40.8 T·m
Le	4.6 mH
EBP	125 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	547 mm (21.5 in)
Bolt Circle Diameter	527 mm (20.7 in)
Baffle Cutout Diameter	508 mm (20 in)
Depth	255 mm (10.04 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	15 dm³ (0.53 ft³)
Net Weight	14.8 kg (32.63 lb)
Shipping Weight	17.1 kg (37.7 lb)
Shipping Box	570x570x320 mm (22.44x22.44x12.60 in)
Service kit	RCK21DS1158

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 100 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 4 Ω, data upon request



21SW152

ND SUBWOOFER

4000 W
continuous program
power capacity

153 mm (6 in)
split winding
copper voice coil

Double silicone
spider with optimized
compliance

Ventilated voice
coil gap for reduced
power compression

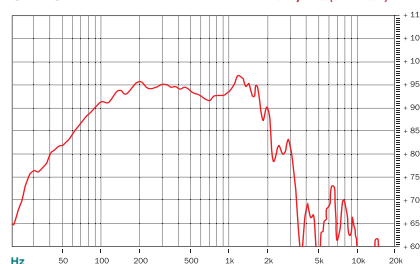
96 dB
sensitivity

30 - 1000 Hz
response

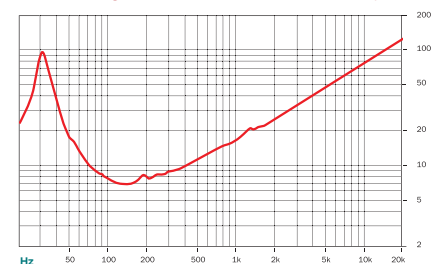
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	530 mm (21 in)
Nominal Impedance	4 Ω
Minimum Impedance	4.2 Ω
Power Handling	
Nominal (AES) ¹	2000 W
Continuous Program ²	4000 W
Sensitivity (1W/1m) ³	96 dB
Frequency Range	30 - 1000 Hz
Voice Coil Diameter	153 mm (6 in)
Winding Material	Copper
Former Material	Glass Fibre
Winding Depth	30 mm (1.18 in)
Magnetic Gap Depth	12 mm (0.5 in)
Flux Density	1.2 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	32 Hz
Re	3.3 Ω
Qes	0.31
Qms	7.0
Qts	0.3
Vas	200.0 dm³ (7.0 ft³)
Sd	1680 cm² (260.4 in²)
η ₀	2.2 %
X max	± 15 mm
X var	± 16 mm
Mms	460 g
Bl	32.5 T·m
Le	1.5 mH
EBP	103 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	547 mm (21.5 in)
Bolt Circle Diameter	527 mm (20.7 in)
Baffle Cutout Diameter	508 mm (20 in)
Depth	261 mm (10.3 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air volume occupied by driver	16 dm³ (0.56 ft³)
Net Weight	18.5 kg (40.7 lb)
Shipping Weight	20.8 kg (45.86 lb)
Shipping Box	570x570x320 mm (22.44x22.44x12.60 in)
Service kit	RCK21SW1524

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 100 to 500 Hz.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Also available in 8 16 Ω, data upon request

21IPAL

ND SUBWOOFER



5000 W
continuous program
power capacity

153 mm (6 in)
split winding
aluminium voice coil

Neodymium magnet
allows a very high force
factor and linear excursion

Double silicone spider
with optimized compliance

Ventilated voice coil gap
for reduced power
compression

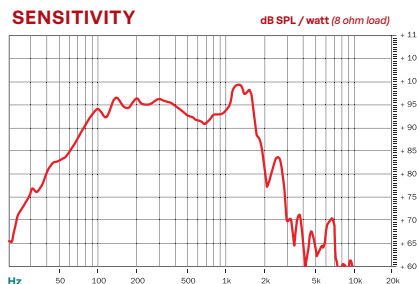
99 dB
sensitivity

37 - 1000 Hz
response

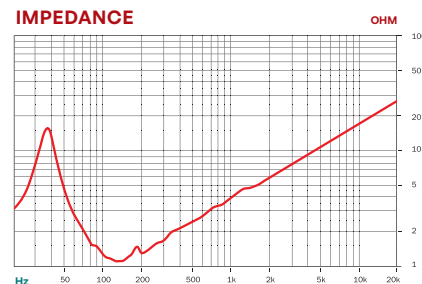
80 mm
peak-to-peak excursion
before damage



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Diameter	530 mm (21.0 in)
Nominal Impedance	1 Ω
Minimum Impedance	1.1 Ω
Power Handling	
Nominal (AES) ¹	2500 W
Continuous Program ²	5000 W
Sensitivity (1W/1m) ³	99 dB
Frequency Range	37 - 1000 Hz
Voice Coil Diameter	153 mm (6.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	48.0 mm (1.9 in)
Magnetic Gap Depth	18.0 mm (0.7 in)
Flux Density	1.35 T
Magnet Material	Neodymium Inside Slug
Waterproof Cone Treatment	Both Sides

THIELE & SMALL PARAMETERS⁴

Fs	37 Hz
Re	0.7 Ω
Qes	0.22
Qms	4.9
Qts	0.21
Vas	155 dm³ (5.47 ft³)
Sd	1680 cm² (260 in²)
η _o	3.2 %
X max	± 22 mm
X var	± 15 mm
Mms	487 g
Bl	19.1 T·m
Le	0.5 mH
EBP	168 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	547 mm (21.5 in)
Bolt Circle Diameter	527 mm (20.7 in)
Baffle Cutout Diameter	508 mm (20 in)
Depth	269 mm (10.59 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Air volume occupied by driver	16 dm³ (0.56 ft³)
Net Weight	22.0 kg (48.5 lb)
Shipping Weight	24.3 kg (53.57 lb)
Shipping Box	570x570x320 mm (22.44x22.44x12.60 in)

Service kit **RCK21IPAL**

¹ Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance Loudspeaker in free air.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Coaxial loudspeakers combine the features of our best cone loudspeakers and compression drivers into a one-piece, pointsource solution. Their format enables electro-acoustical designers to build very compact, versatile systems.

The majority of our more recent **FCX** and **FHX** series coaxial designs feature a single magnet structure for both the woofer and high frequency driver. This solution offers a more compact, lightweight, and cost effective solution than dual driver coaxial alternatives, with little or no impact on overall performance.

All coaxial loudspeaker cones are treated with a protective waterproof coating and a fine mesh HF driver protection screen, allowing operation in a wide range of environments. The waveguides loaded on the compression drivers are designed in accordance with the latest theories, resulting in uniform angular coverage and high acoustical load, with very low distortion.

Many of our coaxial loudspeakers are available in alternative impedance configurations. Please ask your B&C representative for more information.

5FCX44

FE-ND COAXIAL



200 W
continuous program
power capacity

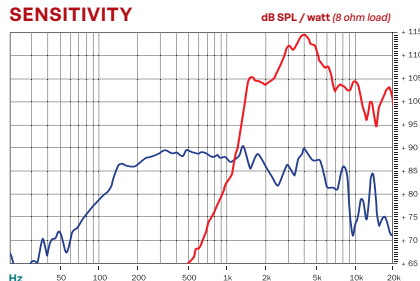
70°
nominal coverage

91 dB
sensitivity

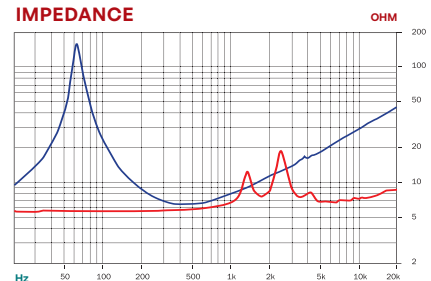
60 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	127 mm (5 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 6.5 Ω (HF)
Frequency Range	60 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Ferrite (LF)/Neo Ring (HF)
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	91 dB
Power Handling Nom. (AES) ³	100 W
Continuous Program ⁴	200 W
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Copper
Flux Density	1.07 T
Former Material	Kapton
Winding Depth	9.0 mm (0.35 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	107.5 dB
Power Handling Nom. (AES) ³	10 W
Continuous Program ⁴	20 W

Voice Coil Diameter	25 mm (1 in)
Winding Material	Aluminium
Diaphragm Material	Polyester
Recommended Crossover ⁵	2.5 kHz
Flux Density	1.65 T
Inductance	0.1 mH

THIELE & SMALL PARAMETERS⁴

Fs	61 Hz
Re	5.6 Ω
Qes	0.25
Qms	7.8
Qts	0.25
Vas	7 dm ³ (0.25 ft ³)
Sd	95 cm ² (14.7 in ²)
η _o	0.6 %
X max	± 3 mm
X var	± 5 mm

Mms	12 g
Bl	10.5 T·m
Le	0.8 mH
EBP	244 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	136 mm (5.35 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	110 mm (4.33 in)
Flange and Gasket Thickness	8 mm (0.31 in)
Net Weight	1.85 kg (4.1 lb)
Shipping Weight	2.3 kg (5.07 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)

Service kit LF	RCK005FCX448
Service kit HF	MMDD5E8

¹ 1 Included by -6 dB down points.

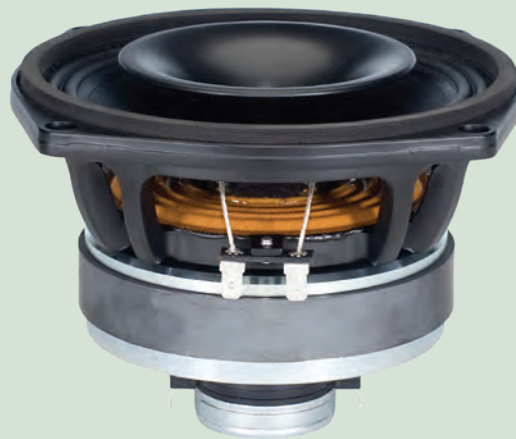
² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



6FHx51

FE-ND COAXIAL

300 W
continuous program
power capacity

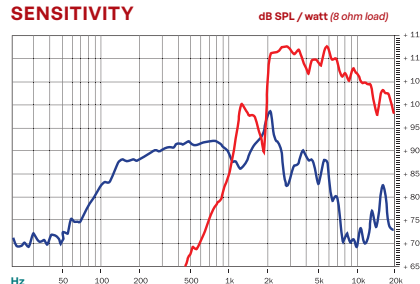
70°
nominal coverage

93 dB
sensitivity

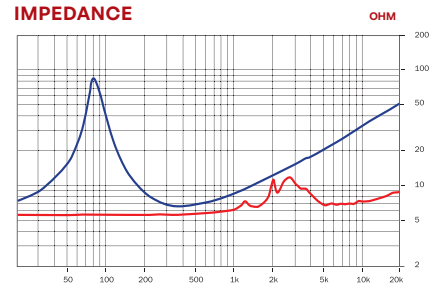
85 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	170 mm (6.5 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 7 Ω (HF)
Frequency Range	85 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Ferrite (LF)/Neo Ring (HF)
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	93 dB
Power Handling Nom. (AES) ³	150 W
Continuous Program ⁴	300 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Flux Density	1.05 T
Former Material	Kapton
Winding Depth	13.0 mm (0.51 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	108.5 dB
Power Handling ³	10 W
Continuous Program ⁴	20 W

Voice Coil Diameter	25 mm (1 in)
Winding Material	Aluminium
Diaphragm Material	Polyester
Recommended Crossover ⁵	2.5 kHz
Flux Density	1.65 T
Inductance	0.1 mH

THIELE & SMALL PARAMETERS⁴

Fs	85 Hz
Re	5.5 Ω
Qes	0.4
Qms	7.8
Qts	0.37
Vas	5 dm³ (0.18 ft³)
Sd	132 cm² (20.5 in²)
η ₀	0.83 %
X max	± 5 mm
X var	± 5.7 mm

Mms	16 g
Bl	11.3 T·m
Le	1 mH
EBP	212 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	146 mm (5.75 in)
Depth	122 mm (4.8 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Net Weight	2.7 kg (5.9 lb)
Shipping Weight	3.15 kg (6.94 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)

Service kit LF	RCK06FHx518
Service kit HF	MMDDE58

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



8CX21

FE COAXIAL

400 W
continuous program
power capacity

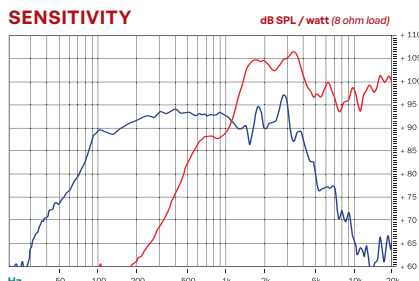
100°
nominal coverage

94 dB
sensitivity

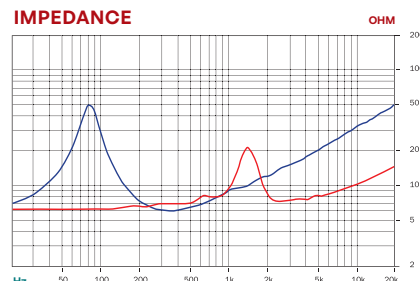
75 - 20000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	210 mm (8 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.1 Ω (LF), 7.2 Ω (HF)
Frequency Range	75 - 20000 Hz
Dispersion Angle ¹	100°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	94 dB
Power Handling Nom. (AES) ³	200 W
Continuous Program ⁴	400 W
Voice Coil Diameter	52 mm (2 in)
Winding Material	Copper
Flux Density	1.1 T
Former Material	Kapton
Winding Depth	16.0 mm (0.63 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	101 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Diaphragm Material	Polyester
Recommended Crossover ⁵	2.2 kHz
Flux Density	1.45 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	74 Hz
Re	5.2 Ω
Qes	0.39
Qms	4.1
Qts	0.36
Vas	15 dm ³ (0.55 ft ³)
Sd	220 cm ² (34.1 in ²)
η ₀	1.5 %
X max	± 5 mm
X var	± 5 mm

Mms	21 g
Bl	11.5 T·m
Le	1.2 mH
EBP	189 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	135 mm (5.3 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Net Weight	4 kg (8.8 lb)
Shipping Weight	4.6 kg (10.14 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)
Crossover	FB08CX21
Service kit LF	RCK008CX218
Service kit HF	MMD0128

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink

noise signal within the range

Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is

defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request



8FCX51

FE COAXIAL

500 W
continuous program
power capacity

100°
nominal coverage

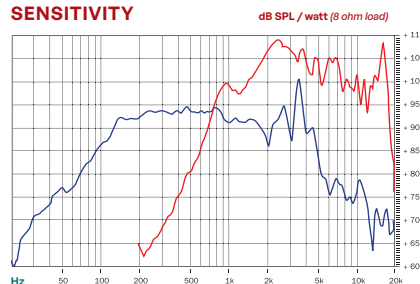
Single ferrite
magnet assembly

96 dB
sensitivity

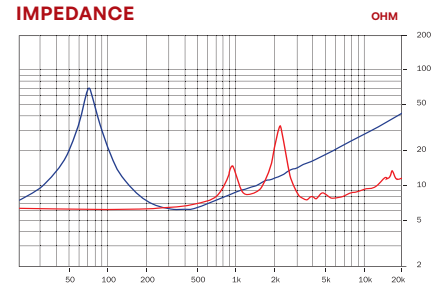
69 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	210 mm (8 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7 Ω (HF)
Frequency Range	69 - 18000 Hz
Dispersion Angle ¹	100°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	96 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Flux Density	1.0 T
Former Material	Glass Fibre
Winding Depth	17.5 mm (0.69 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	104 dB
Power Handling ³	50 W
Continuous Program ⁴	100 W

Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Diaphragm Material	Polyimide
Recommended Crossover ⁵	1.8 kHz
Flux Density	1.8 T
Inductance	0.11 mH

THIELE & SMALL PARAMETERS⁴

Fs	69 Hz
Re	4.9 Ω
Qes	0.36
Qms	6.3
Qts	0.34
Vas	16 dm³ (0.56 ft³)
Sd	220 cm² (34.1 in²)
η ₀	1.4 %
X max	± 6.5 mm
X var	± 6 mm

Mms	22 g
Bl	11.5 T·m
Le	0.9 mH
EBP	191 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	118 mm (4.6 in)
Flange and Gasket Thickness	10 mm (0.37 in)
Net Weight	5.1 kg (11.2 lb)
Shipping Weight	5.7 kg (12.57 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)

Service kit LF	RCK008FCX518
Service kit HF	MMD4008

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



10FCX64

FE COAXIAL

500 W
continuous program
power capacity

70°
nominal coverage

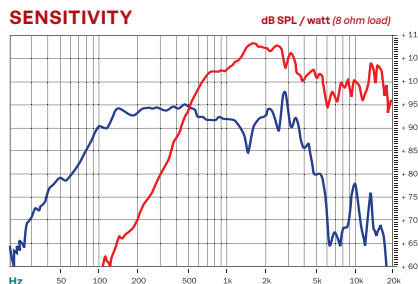
Single ferrite
magnet assembly

95 dB
sensitivity

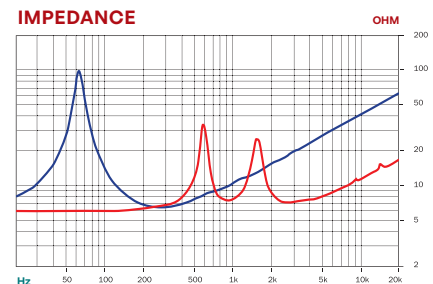
65 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	250 mm (10 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.4 Ω (LF), 7 Ω (HF)
Frequency Range	65 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	95 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Flux Density	0.96 T
Former Material	Kapton
Winding Depth	13.0 mm (0.51 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	104 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	65 mm (2.5 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.6 T
Inductance	0.15 mH

THIELE & SMALL PARAMETERS⁴

Fs	63 Hz
Re	5.5 Ω
Qes	0.44
Qms	7.9
Qts	0.42
Vas	25 dm ³ (0.89 ft ³)
Sd	320 cm ² (49.1 in ²)
η _o	1.4 %
X max	± 5.5 mm
X var	± 6 mm

Mms	37 g
Bl	13.4 T·m
Le	1.2 mH
EBP	143 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.3 in)
Bolt Circle Diameter	245 mm (9.6 in)
Baffle Cutout Diameter	230 mm (8.8 in)
Depth	140 mm (5.51 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Net Weight	5.65 kg (12.8 lb)
Shipping Weight	6.55 kg (14.44 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Crossover	FB10CX64
Service kit LF	RCK10FCX648
Service kit HF	MMD620TN-8M

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink

noise signal within the range

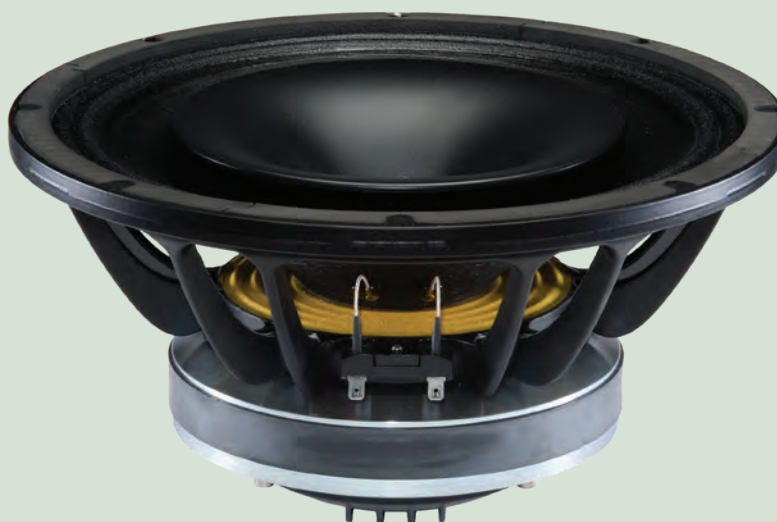
Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is

defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



12FHx76

FE COAXIAL

700 W
continuous program
power capacity

60°x 40°
nominal coverage

Modified exponential
horn flare for improved
acoustic loading
and controlled
coverage

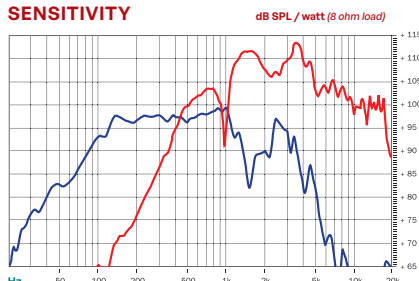
98 dB
sensitivity

45 - 18000 Hz
response

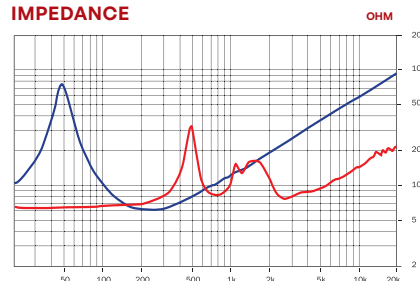
Single ferrite
magnet assembly



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	320 mm (12 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.8 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	60° x 40°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	98 dB
Power Handling Nom. (AES) ³	350 W
Continuous Program ⁴	700 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.6 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	106 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.6 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	48 Hz
Re	5.2 Ω
Qes	0.36
Qms	5.4
Qts	0.33
Vas	88 dm³ (3.1 ft³)
Sd	522 cm² (80.9 in²)
η ₀	2.7 %
X max	± 6.5 mm
X var	± 4 mm

Mms	47 g
Bl	14.4 T·m
Le	1.6 mH
EBP	133 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	284 mm (11.14 in)
Depth	169 mm (6.65 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Net Weight	8.5 kg (18.7 lb)
Shipping Weight	9.8 kg (21.61 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

Service kit LF	RCK12FHx768
Service kit HF	MMD3BTN-8M

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 Ω, data upon request

Also available 12FCX76 (without horn/ 80° disp.)



15FCX76

FE COAXIAL

800 W
continuous program
power capacity

80°
nominal coverage

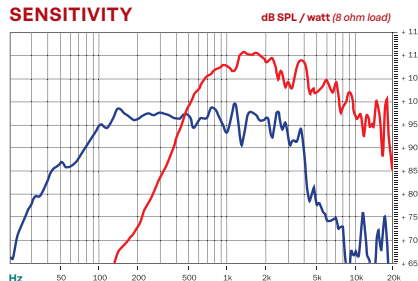
Single ferrite
magnet assembly

98 dB
sensitivity

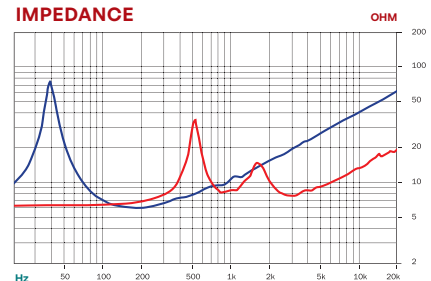
40 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	380 mm (15 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.8 Ω (HF)
Frequency Range	40 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Ferrite Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	98 dB
Power Handling Nom. (AES) ³	400 W
Continuous Program ⁴	800 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.6 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	105 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.6 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	40 Hz
Re	5.2 Ω
Qes	0.47
Qms	8.3
Qts	0.44
Vas	187 dm³ (6.6 ft³)
Sd	855 cm² (132.5 in²)
η ₀	2.5 %
X max	± 6.5 mm
X var	± 7.5 mm

Mms	87 g
Bl	15.6 T·m
Le	1.2 mH
EBP	85 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	353 mm (13.9 in)
Depth	199 mm (7.83 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Net Weight	9 kg (19.8 lb)
Shipping Weight	10.6 kg (23.37 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)

Service kit LF	RCK15FCX768
Service kit HF	MMD3BTN8M

¹ 1 Included by -6 dB down points.
² Applied RMS Voltage is set to 2.83V.
³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs.
 LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁵ 12 dB/oct. or higher slope high-pass filter.

Also available 15FHX76 (with 60°x 40° horn)

Coaxial loudspeakers combine the features of our best cone loudspeakers and compression drivers into a one-piece, point-source solution. Their format enables electro-acoustical designers to build very compact, versatile systems.

The majority of our more recent **CXN** and **HGX** series coaxial designs feature a single magnet structure for both the woofer and high frequency driver. This solution offers a more compact, lightweight, and cost effective solution than dual driver coaxial alternatives, with little or no impact on overall performance. The CXN series now also features a long throw, 88mm (3.5") voice coil woofer, combined with a 75mm (3") diaphragm high frequency driver, an excellent

balance between HF and LF output allowing cabinet designers to increase performance without compromise.

All coaxial loudspeaker cones are treated with a protective waterproof coating and a fine mesh HF driver protection screen, allowing operation in a wide range of environments. The waveguides loaded on the compression drivers are designed in accordance with the latest theories, resulting in uniform angular coverage and high acoustical load, with very low distortion.

Continuing our trend of ever increasing performance, we introduce the world's first 18 triaxial loudspeaker, with a large horn standard and our DCX464 compression driver handling frequencies above 600Hz.



4CXN36

ND COAXIAL

200 W
continuous program
power capacity

70°
nominal coverage

Single Neodymium
magnet assembly

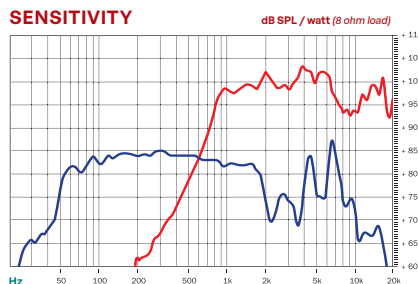
86 dB
sensitivity

110 - 18000 Hz
response

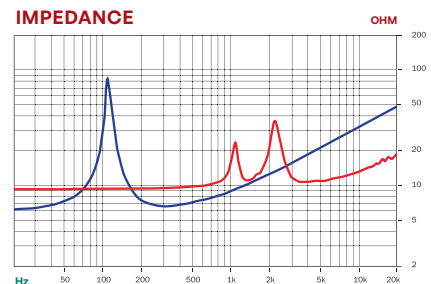
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	100 mm (4 in)
Nom. Impedance	8 Ω (LF), 16 Ω (HF)
Minimum Impedance	6.5 Ω (LF), 10.2 Ω (HF)
Frequency Range	110 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

LF UNIT

Sensitivity (1W/1m) ²	86 dB
Power Handling Nom. (AES) ³	100 W
Continuous Program ⁴	200 W
Voice Coil Diameter	34 mm (1.34 in)
Winding Material	Copper
Flux Density	0.8 T
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	6 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	102 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Recommended Crossover ⁵	2.0 kHz
Flux Density	0.65 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	113 Hz
Re	5.6 Ω
Qes	0.9
Qms	12.7
Qts	0.83
Vas	1.5 dm³ (0.05 ft³)
Sd	56.0 cm² (8.68 in²)
η ₀	0.22 %
X max	± 4 mm
X var	± 5 mm

Mms	6.0 g
Bl	5.13 T·m
Le	0.3 mH
EBP	125 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	127 mm (5.0 in)
Bolt Circle Diameter	114 mm (4.51 in)
Baffle Cutout Diameter	103 mm (4.06 in)
Depth	84 mm (3.31 in)
Flange and Gasket Thickness	3 mm (0.12 in)
Net Weight	0.54 kg (1.19 lb)
Shipping Weight	0.75 kg (1.65 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92 in)
Crossover	FBCXN36
Service kit LF	RCK004CXN368
Service kit HF	MMDE11016

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink

noise signal within the range

Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is

defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



4M CX36

ND COAXIAL

200 W
continuous program
power capacity

70°
nominal coverage

Neodymium magnet
allows a very light yet
powerful motor
assembly

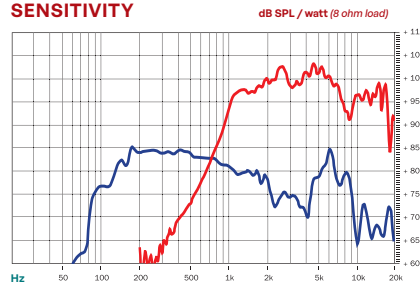
87 dB
sensitivity

150 - 18000 Hz
response

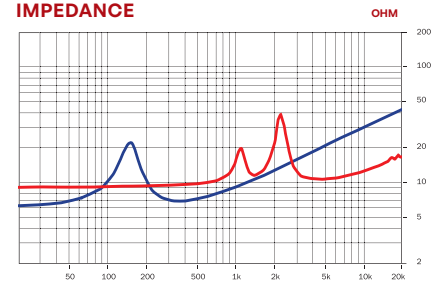
Aluminium
demodulating ring
allows a very low
distortion figure



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	100 mm (4 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.8 Ω (LF), 10.2 Ω (HF)
Frequency Range	150 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	87 dB
Power Handling Nom. (AES) ³	100 W
Continuous Program ⁴	200 W
Voice Coil Diameter	34 mm (1.34 in)
Winding Material	Copper
Flux Density	0.74 T
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	102 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter	36 mm (1.42 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Recommended Crossover ⁵	2.0 kHz
Flux Density	1.65 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	150 Hz
Re	5.6 Ω
Qes	1.2
Qms	3.9
Qts	0.91
Vas	0.8 dm³ (0.03 ft³)
Sd	56 cm² (8.68 in²)
η ₀	0.22 %
X max	± 4 mm
X var	± 3 mm

Mms	6.2 g
Bl	5.27 T·m
Le	0.87 mH
EBP	125 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	127 mm (5.0 in)
Bolt Circle Diameter	114 mm (4.51 in)
Baffle Cutout Diameter	103 mm (4.06 in)
Depth	83 mm (3.27 in)
Flange and Gasket Thickness	2 mm (0.08 in)
Net Weight	0.57 kg (1.26 lb)
Shipping Weight	0.69 kg (1.51 lb)
Shipping Box	120x117x110 mm (4.72x4.61x4.33 in)

Service kit	MMDEE11016
-------------	-------------------

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



5CXN36

ND COAXIAL

200 W
continuous program
power capacity

70°
nominal coverage

Single Neodymium
magnet assembly

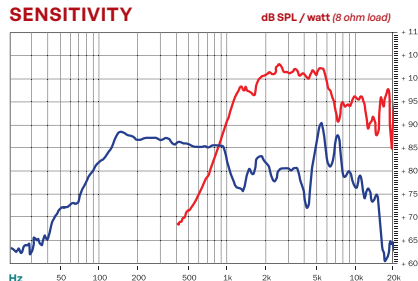
89 dB
sensitivity

94 - 18000 Hz
response

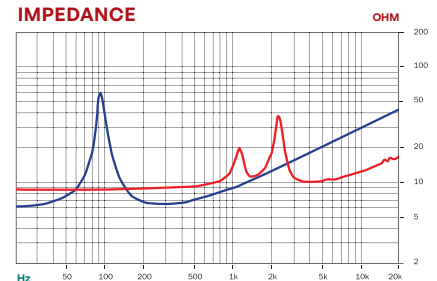
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	127 mm (5 in)
Nom. Impedance	8 Ω (LF), 16 Ω (HF)
Minimum Impedance	6.5 Ω (LF), 10 Ω (HF)
Frequency Range	94 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

LF UNIT

Sensitivity (1W/1m) ²	89 dB
Power Handling Nom. (AES) ³	100 W
Continuous Program ⁴	200 W
Voice Coil Diameter	34 mm (1.3 in)
Winding Material	Copper
Flux Density	0.74 T
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	6 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	101 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Recommended Crossover ⁵	2.0 kHz
Flux Density	0.65 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	95 Hz
Re	5.8 Ω
Qes	0.97
Qms	13.5
Qts	0.9
Vas	4.4 dm ³ (0.16 ft ³)
Sd	95.0 cm ² (14.73 in ²)
η ₀	0.36 %
X max	± 4.1 mm
X var	± 5.5 mm

Mms	8.3 g
Bl	5.42 T·m
Le	0.89 mH
EBP	97 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	150 mm (5.91 in)
Bolt Circle Diameter	138 mm (5.43 in)
Baffle Cutout Diameter	123 mm (4.84 in)
Depth	87 mm (3.43 in)
Flange and Gasket Thickness	7 mm (0.28 in)
Net Weight	0.62 kg (1.37 lb)
Shipping Weight	1.1 kg (2.43 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Crossover	FBCXN36
Service kit LF	RCK004CXN368
Service kit HF	MMDDE11016

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink

noise signal within the range

Fs-10Fs.

⁴ LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁵ Power on Continuous Program is

defined as 3 dB greater than the minimum rating.

⁶ 12 dB/oct. or higher slope high-pass filter.



5CXN44

ND COAXIAL

300 W
continuous program
power capacity

80°
nominal coverage

Single Neodymium
magnet assembly

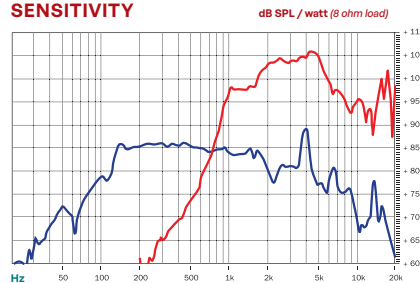
89.5 dB
sensitivity

70 - 18000 Hz
response

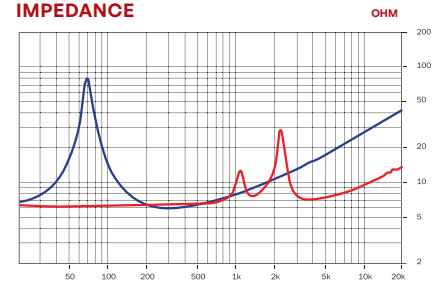
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	127 mm (5.0 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.1 Ω (LF), 7.5 Ω (HF)
Frequency Range	70 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	89.5 dB
Power Handling Nom. (AES) ³	150 W
Continuous Program ⁴	300 W
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Copper
Flux Density	0.95 T
Former Material	Kapton
Winding Depth	14.0 mm (0.55 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	101 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Recommended Crossover ⁵	2.0 kHz
Flux Density	1.54 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	70 Hz
Re	4.7 Ω
Qes	0.47
Qms	9.6
Qts	0.45
Vas	4.3 dm³ (0.15 ft³)
Sd	95 cm² (14.73 in²)
η ₀	0.31 %
X max	± 5.5 mm
X var	± 6 mm

Mms	15 g
Bl	8.1 T·m
Le	0.37 mH
EBP	148 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	155 mm (6.1 in)
Bolt Circle Diameter	142 mm (5.6 in)
Baffle Cutout Diameter	122 mm (4.8 in)
Depth	96 mm (3.78 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Net Weight	1.2 kg (2.65 lb)
Shipping Weight	1.65 kg (3.64 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)

Service kit LF	RCK005CXN448
Service kit HF	MMDDE1108

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated nominal impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



6CXN36

ND COAXIAL

200 W
continuous program
power capacity

90°
nominal
coverage

Single Neodymium
magnet assembly

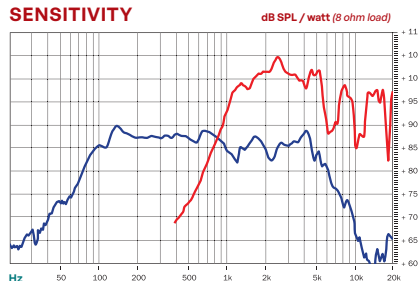
90 dB
sensitivity

90 - 18000 Hz
response

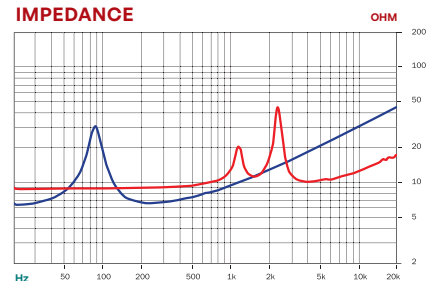
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	165 mm (6.5 in)
Nom. Impedance	8 Ω (LF), 16 Ω (HF)
Minimum Impedance	6.8 Ω (LF), 10.2 Ω (HF)
Frequency Range	90 - 18000 Hz
Dispersion Angle ¹	90°
Magnet Material	Neodymium Ring
Waterproof Cone Treatment	Front Side

LF UNIT

Sensitivity (1W/1m) ²	90 dB
Power Handling Nom. (AES) ³	100 W
Continuous Program ⁴	200 W
Voice Coil Diameter	34 mm (1.3 in)
Winding Material	Copper
Flux Density	0.74 T
Former Material	Glass Fibre
Winding Depth	11 mm (0.43 in)
Magnetic Gap Depth	6 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	100 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Recommended Crossover ⁵	2.0 kHz
Flux Density	0.65 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	90 Hz
Re	5.8 Ω
Qes	1.17
Qms	5.0
Qts	0.95
Vas	7.5 dm ³ (0.26 ft ³)
Sd	132.0 cm ² (20.46 in ²)
η ₀	0.45 %
X max	± 4.1 mm
X var	± 5.0 mm

Mms	10.2 g
Bl	5.34 T·m
Le	0.94 mH
EBP	76 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	180 mm (7.09 in)
Bolt Circle Diameter	165 mm (6.5 in)
Baffle Cutout Diameter	146 mm (5.75 in)
Depth	91 mm (3.58 in)
Flange and Gasket Thickness	6 mm (0.25 in)
Net Weight	0.74 kg (1.63 lb)
Shipping Weight	1.19 kg (2.62 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.91 in)
Crossover	FBCXN36
Service kit LF	RCK004CXN368
Service kit HF	MMDDE11016

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink

noise signal within the range

Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is

defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



6HCX51

ND COAXIAL

300 W
continuous program
power capacity

70°
nominal coverage

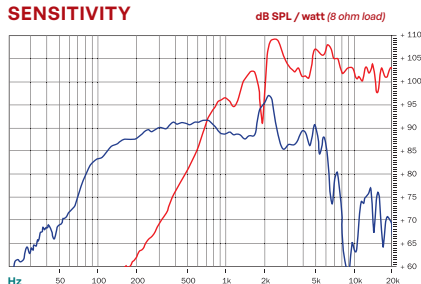
Single Neodymium
magnet assembly

92 dB
sensitivity

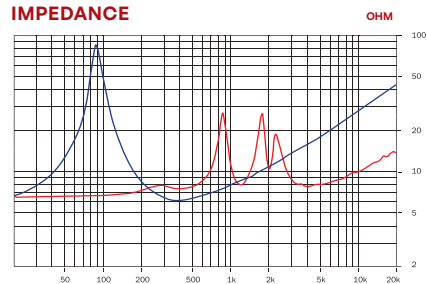
90 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	170 mm (6.5 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.5 Ω (HF)
Frequency Range	90 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Both sides

LF UNIT

Sensitivity (1W/1m) ²	92 dB
Power Handling Nom. (AES) ³	150 W
Continuous Program ⁴	300 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Copper
Flux Density	1.1 T
Former Material	Kapton
Winding Depth	13.0 mm (0.51 in)
Magnetic Gap Depth	6.0 mm (0.24 in)

HF UNIT

Sensitivity (1W/1m) ²	105 dB
Power Handling Nom. (AES) ³	25 W
Continuous Program ⁴	50 W

Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Diaphragm Material	Polyester
Recommended Crossover ⁵	2.2 kHz
Flux Density	1.8 T
Inductance	0.06 mH

THIELE & SMALL PARAMETERS⁴

Fs	89 Hz
Re	5.2 Ω
Qes	0.4
Qms	7.5
Qts	0.38
Vas	5 dm ³ (0.18 ft ³)
Sd	132 cm ² (20.5 in ²)
η ₀	0.8 %
X max	± 5 mm
X var	± 5 mm

Mms	16 g
Bl	10.9 T·m
Le	0.8 mH
EBP	222 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	187 mm (7.4 in)
Bolt Circle Diameter	172 mm (6.7 in)
Baffle Cutout Diameter	146 mm (5.7 in)
Depth	104 mm (4.1 in)
Flange and Gasket Thickness	11 mm (0.4 in)
Net Weight	1.55 kg (3.4 lb)
Shipping Weight	2.0 kg (4.41 lb)
Shipping Box	255x255x150 mm (10.04x10.04x5.90 in)

Service kit LF	RCK06HCX518
Service kit HF	MMD0128

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink

noise signal within the range

Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is

defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request



8CXN51

ND COAXIAL

500 W
continuous program
power capacity

100°
nominal coverage

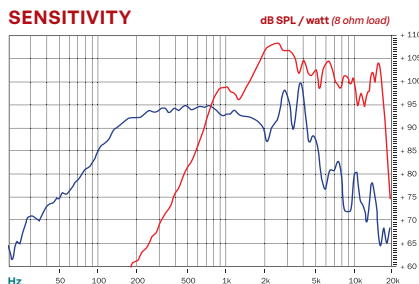
Single Neodymium
magnet assembly

97 dB
sensitivity

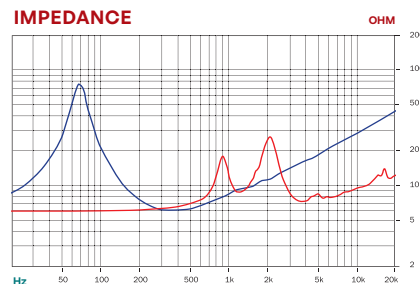
70 - 18000 Hz
response



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	210 mm (8 in)
Nom. Impedance	8 Ω
Minimum Impedance	6 Ω (LF), 7.4 Ω (HF)
Frequency Range	70 - 18000 Hz
Dispersion Angle ¹	100°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	97 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	17.0 mm (0.67 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	104 dB
Power Handling Nom. (AES) ³	50 W
Continuous Program ⁴	100 W

Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Diaphragm Material	Polyimide
Recommended Crossover ⁵	1.8 kHz
Flux Density	1.8 T
Inductance	0.11 mH

THIELE & SMALL PARAMETERS⁴

Fs	68 Hz
Re	4.9 Ω
Qes	0.29
Qms	4.7
Qts	0.27
Vas	17 dm ³ (0.60 ft ³)
Sd	220 cm ² (34.1 in ²)
η ₀	1.8 %
X max	± 6 mm
X var	± 6 mm

Mms	22 g
Bl	12.6 T·m
Le	0.9 mH
EBP	234 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	225 mm (8.8 in)
Bolt Circle Diameter	210 mm (8.3 in)
Baffle Cutout Diameter	187 mm (7.4 in)
Depth	111 mm (4.4 in)
Flange and Gasket Thickness	10 mm (0.4 in)
Net Weight	2.5 kg (5.5 lb)
Shipping Weight	3.1 kg (6.83 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)

Service kit LF	RCK008CXN518
Service kit HF	MMD4008

¹ 1 Included by -6 dB down points.
² Applied RMS Voltage is set to 2.83V.
³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 and 16 Ω, data upon request

10CXN64

ND COAXIAL



500 W
continuous program
power capacity

70°
nominal coverage

Single Neodymium
magnet assembly

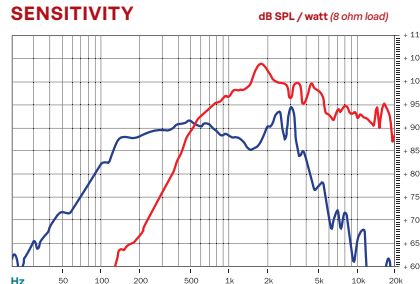
97 dB
sensitivity

70 - 18000 Hz
response

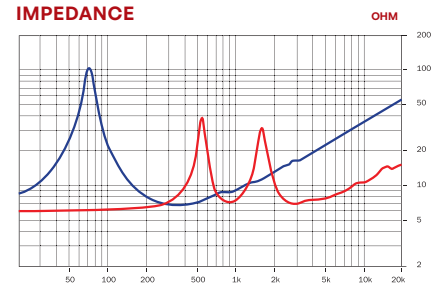
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	250 mm (10.0 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.7 Ω (LF), 7 Ω (HF)
Frequency Range	70 - 18000 Hz
Dispersion Angle ¹	70°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	97 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Flux Density	1.1 T
Former Material	Kapton
Winding Depth	15.0 mm (0.59 in)
Magnetic Gap Depth	9.0 mm (0.35 in)

HF UNIT

Sensitivity (1W/1m) ²	103.0 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	65 mm (2.5 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.75 T
Inductance	0.15 mH

THIELE & SMALL PARAMETERS⁴

Fs	68 Hz
Re	5.6 Ω
Qes	0.33
Qms	5.6
Qts	0.31
Vas	23 dm³ (0.81 ft³)
Sd	320 cm² (49.6 in²)
η _o	2.2 %
X max	± 5.5 mm
X var	± 5.0 mm

Mms	33.5 g
Bl	15.8 T·m
Le	1.1 mH
EBP	206 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	261 mm (10.28 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	233 mm (9.17 in)
Depth	142 mm (5.59 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Net Weight	3.2 kg (7.05 lb)
Shipping Weight	4.1 kg (9.04 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)
Crossover	FB10CX64
Service kit LF	RCK10CXN648
Service kit HF	MMD620TN8M

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink

noise signal within the range

Fs-10Fs.

⁴ LF and HF Power calculated on rated nominal impedance Loudspeaker in free air.

⁵ Power on Continuous Program is

defined as 3 dB greater than the minimum rating.

⁶ 12 dB/oct. or higher slope high-pass filter.



12CXL64

ND COAXIAL

500 W
continuous program
power capacity

60°
nominal coverage

Single Neodymium
magnet assembly

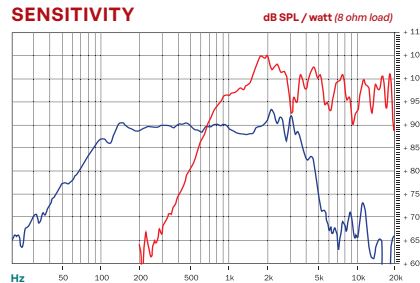
96 dB
sensitivity

54 - 18000 Hz
response

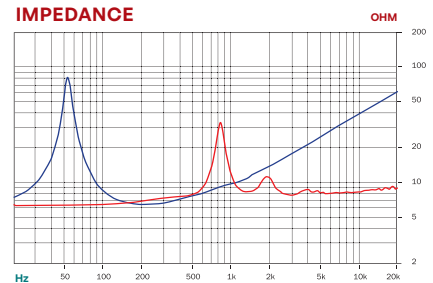
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	320 mm (12 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.6 Ω (LF), 7.8 Ω (HF)
Frequency Range	54 - 18000 Hz
Dispersion Angle ¹	60°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	96 dB
Power Handling Nom. (AES) ³	250 W
Continuous Program ⁴	500 W
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Copper
Flux Density	0.87 T
Former Material	Kapton
Winding Depth	14.5 mm (0.57 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	106dB
Power Handling Nom. (AES) ³	70 W
Continuous Program ⁴	140 W

Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Recommended Crossover ⁵	1.8 kHz
Flux Density	1.59 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	54 Hz
Re	5.6 Ω
Qes	0.61
Qms	10.1
Qts	0.57
Vas	74 dm³ (2.61 ft³)
Sd	522 cm² (80.91 in²)
η ₀	1.82 %
X max	± 5.3 mm
X var	± 5.5 mm

Mms	43.3 g
Bl	11.86 T·m
Le	0.54 mH
EBP	88 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	313 mm (12.32 in)
Bolt Circle Diameter	298 mm (11.73 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	164 mm (6.46 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Net Weight	3.3 kg (7.28 lb)
Shipping Weight	4.6 kg (10.14 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Crossover	FBCLX64 8Ω
Service kit LF	RCK008CXN518
Service kit HF	MMD4008

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 and 16 Ω, data upon request



12CXN76

ND COAXIAL

700 W
continuous program
power capacity

80°
nominal coverage

Single Neodymium
magnet assembly

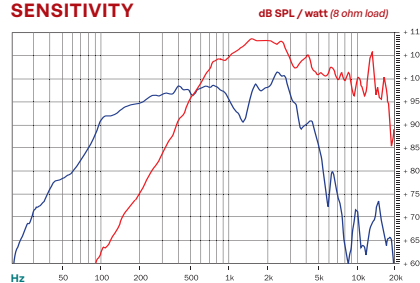
99 dB
sensitivity

45 - 18000 Hz
response

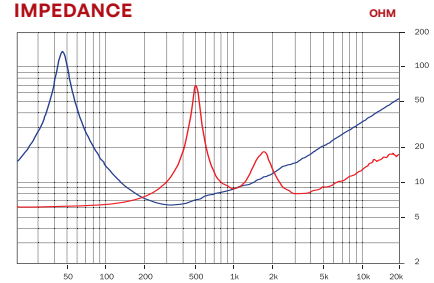
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	320 mm (12 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 8 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	99 dB
Power Handling Nom. (AES) ³	350 W
Continuous Program ⁴	700 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	16.2 mm (0.64 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	105 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Polyester/Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.9 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	42 Hz
Re	5.0 Ω
Qes	0.2
Qms	8.0
Qts	0.19
Vas	120 dm³ (4.2 ft³)
Sd	522 cm² (80.9 in²)
η ₀	4.1 %
X max	± 4 mm
X var	± 6 mm

Mms	47 g
Bl	17.6 T·m
Le	0.8 mH
EBP	210 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	282 mm (11.1 in)
Depth	170 mm (6.7 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	5 kg (11 lb)
Shipping Weight	6.3 kg (13.89 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)

Service kit LF	RCK12CXN768M
Service kit HF	MMD9028M

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 Ω, data upon request
Also available 12HCX76 (with 60°x 40° horn)

12CXN88

ND COAXIAL



1000 W
continuous program
power capacity

80°
nominal coverage

100 dB
sensitivity

50 - 18000 Hz
response

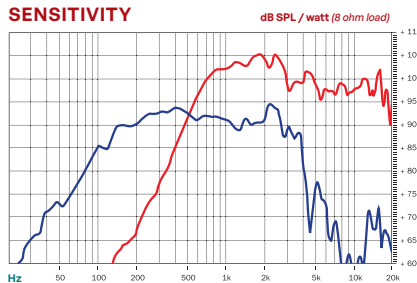
Single Neodymium
magnet assembly

Aluminium
demodulating ring
for very low distortion

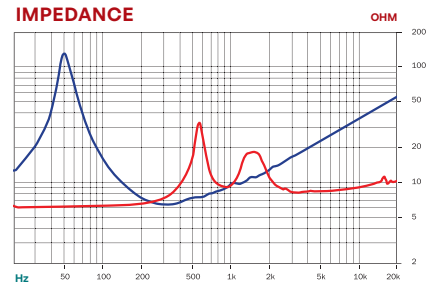
Double silicone spider
with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	320 mm (12 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.6 Ω (LF), 8.5 Ω (HF)
Frequency Range	50 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	100 dB
Power Handling Nom. (AES) ³	500 W
Continuous Program ⁴	1000 W
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Flux Density	1.05 T
Former Material	Glass Fibre
Winding Depth	21.5 mm (0.85 in)
Magnetic Gap Depth	11.0 mm (0.43 in)

HF UNIT

Sensitivity (1W/1m) ²	106 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.75 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	50 Hz
Re	5 Ω
Qes	0.23
Qms	8.3
Qts	0.22
Vas	59 dm³ (2.08 ft³)
Sd	522 cm² (80.91 in²)
η ₀	3.6 %
X max	± 8 mm
X var	± 10.5 mm

Mms	60 g
Bl	20.9 T·m
Le	1.05 mH
EBP	217 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	315 mm (12.4 in)
Bolt Circle Diameter	298 mm (11.7 in)
Baffle Cutout Diameter	284 mm (11.18 in)
Depth	178 mm (7.01 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Net Weight	6.0 kg (13.23 lb)
Shipping Weight	7.3 kg (16.09 lb)
Shipping Box	425x425x224 mm (16.73x16.73x8.82 in)
Crossover	FBCXN88
Service kit LF	RCK12CXN888
Service kit HF	MMD3DTN8M

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test made with continuous pink

noise signal within the range

Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is

defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 and 16 Ω, data upon request

14CXN76

ND COAXIAL



800 W
continuous program
power capacity

80°
nominal coverage

Single Neodymium
magnet assembly

Aluminium
demodulating ring
for very low distortion

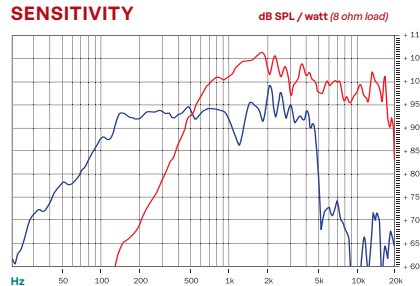
100 dB
sensitivity

45 - 18000 Hz
response

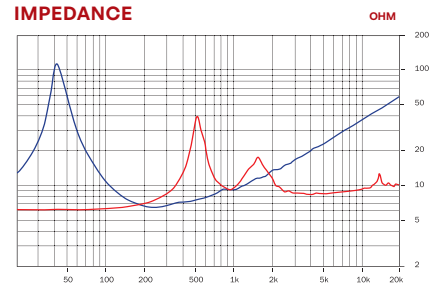
Double silicone
spider with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	355 mm (14 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.5 Ω (LF), 8.2 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front Side

LF UNIT

Sensitivity (1W/1m) ²	100 dB
Power Handling Nom. (AES) ³	400 W
Continuous Program	800 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.05 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	9 mm (0.35 in)

HF UNIT

Sensitivity (1W/1m) ⁴	105 dB
Power Handling Nom. (AES) ⁵	80 W
Continuous Program ⁶	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Polyester/Titanium
Recommended Crossover ⁷	1.2 kHz
Flux Density	1.8 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	45 Hz
Re	5.2 Ω
Qes	0.29
Qms	8.5
Qts	0.28
Vas	131 dm³ (4.63 ft³)
Sd	707 cm² (109.59 in²)
η ₀	4.0 %
X max	± 6 mm
X var	± 8 mm

Mms	67 g
Bl	18.4 T·m
Le	1.0 mH
EBP	155 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.1 in)
Bolt Circle Diameter	343 mm (13.5 in)
Baffle Cutout Diameter	323 mm (12.7 in)
Depth	188 mm (7.4 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Net Weight	5.6 kg (12.35 lb)
Shipping Weight	6.9 kg (15.21 lb)
Shipping Box	425X425X224 mm (16.73X16.73X8.82 in)

Service kit LF	RCK14CXN768
Service kit HF	MMD902-8M

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available 14HCX76 (with 60°x 40° horn)

14CXN88

ND COAXIAL



1000 W
continuous program
power capacity

80°
nominal coverage

Single Neodymium
magnet assembly

Aluminium
demodulating ring
for very low distortion

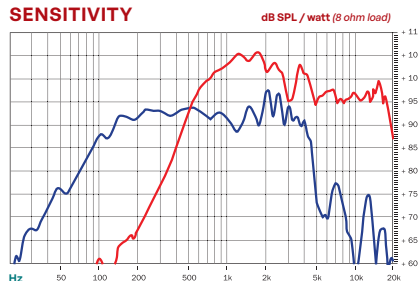
99 dB
sensitivity

45 - 18000 Hz
response

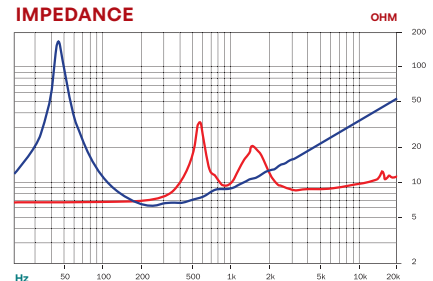
Double silicone spider
with optimized
compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	359 mm (14.0 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.8 Ω (LF), 8.8 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	99 dB
Power Handling Nom. (AES) ³	500 W
Continuous Program ⁴	1000 W
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminium
Flux Density	1.05 T
Former Material	Glass Fibre
Winding Depth	22.0 mm (0.87 in)
Magnetic Gap Depth	11.0 mm (0.43 in)

HF UNIT

Sensitivity (1W/1m) ²	106 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.75 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	46 Hz
Re	4.7 Ω
Qes	0.27
Qms	13.0
Qts	0.26
Vas	100 dm³ (3.53 ft³)
Sd	707 cm² (109.59 in²)
η ₀	3.6 %
X max	± 8.5 mm
X var	± 9 mm

Mms	83 g
Bl	20.7 T·m
Le	0.95 mH
EBP	170 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	359 mm (14.13 in)
Bolt Circle Diameter	343 mm (323.0 in)
Baffle Cutout Diameter	326 mm (12.83 in)
Depth	200 mm (7.87 in)
Flange and Gasket Thickness	15 mm (0.59 in)
Net Weight	7.3 kg (16.09 lb)
Shipping Weight	8.9 kg (19.62 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)
Crossover	FBCXN88
Service kit LF	RCK14CXN888
Service kit HF	MMD3DTN8M

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour

test made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated nominal impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 4 Ω, data upon request

15HCX76

ND COAXIAL



800 W
continuous program
power capacity

60°x 40°
nominal coverage

Modified exponential
horn flare for
improved acoustic
loading and
controlled coverage

99 dB
sensitivity

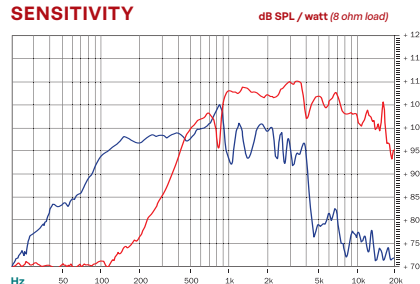
40 - 18000 Hz
response

Single Neodymium
magnet assembly

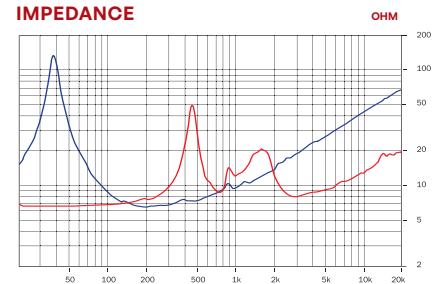
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	380 mm (15 in)
Nom. Impedance	8 Ω
Minimum Impedance	6.0 Ω (LF), 8.0 Ω (HF)
Frequency Range	40 - 18000 Hz
Dispersion Angle ¹	60°x40°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	99 dB
Power Handling Nom. (AES) ³	400 W
Continuous Program ⁴	800 W
Voice Coil Diameter	76 mm (3 in)
Winding Material	Copper
Flux Density	1.15 T
Former Material	Glass Fibre
Winding Depth	16.5 mm (0.65 in)
Magnetic Gap Depth	8.0 mm (0.31 in)

HF UNIT

Sensitivity (1W/1m) ²	107 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.9 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	38 Hz
Re	5.1 Ω
Qes	0.3
Qms	5.8
Qts	0.28
Vas	246 dm³ (8.6 ft³)
Sd	855 cm² (132.5 in²)
η ₀	3.7 %
X max	± 4.5 mm
X var	± 6 mm

Mms	82 g
Bl	17.8 T·m
Le	0.9 mH
EBP	126 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.5 in)
Bolt Circle Diameter	374 mm (14.7 in)
Baffle Cutout Diameter	354 mm (13.94 in)
Depth	200 mm (7.87 in)
Flange and Gasket Thickness	16 mm (0.62 in)
Net Weight	5.6 kg (12.35 lb)
Shipping Weight	7.2 kg (15.87 lb)
Shipping Box	500x495x275 mm (19.68x19.48x10.83 in)

Service kit LF	RCK15HCX768M
Service kit HF	MMD3BTN8M

¹ 1 Included by -6 dB down points.
² Applied RMS Voltage is set to 2.83V.
³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour test

made with continuous pink noise signal within the range Fs-10Fs. LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁵ 12 dB/oct. or higher slope high-pass filter.

Also available 15CXN76 (without horn / 80° disp)



15CXN88

ND COAXIAL

1000 W
continuous program
power capacity

80°
nominal coverage

Single Neodymium
magnet assembly

100 dB
sensitivity

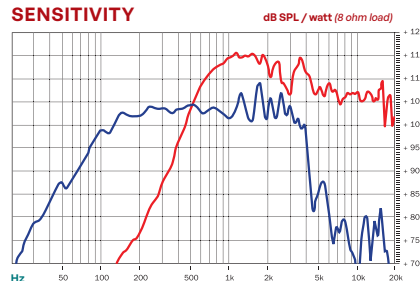
45 - 18000 Hz
response

Aluminium
demodulating ring
for very low distortion

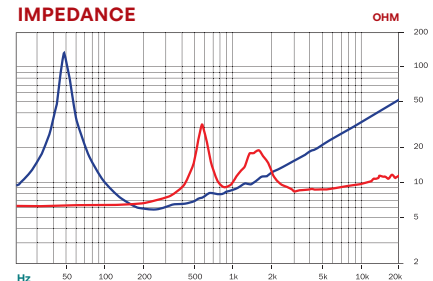
Double spider with
optimized compliance



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	380 mm (15 in)
Nom. Impedance	8 Ω
Minimum Impedance	5.8 Ω (LF), 8.5 Ω (HF)
Frequency Range	45 - 18000 Hz
Dispersion Angle ¹	80°
Magnet Material	Neodymium Ring
Waterproof cone treatment	Front side

LF UNIT

Sensitivity (1W/1m) ²	100 dB
Power Handling Nom. (AES) ³	500 W
Continuous Program ⁴	1000 W
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	Aluminum
Flux Density	1.2 T
Former Material	Glass Fibre
Winding Depth	22.0 mm (0.87 in)
Magnetic Gap Depth	11.0 mm (0.43 in)

HF UNIT

Sensitivity (1W/1m) ²	106 dB
Power Handling Nom. (AES) ³	80 W
Continuous Program ⁴	160 W

Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminum
Diaphragm Material	Titanium
Recommended Crossover ⁵	1.2 kHz
Flux Density	1.75 T
Inductance	0.14 mH

THIELE & SMALL PARAMETERS⁴

Fs	47 Hz
Re	4.6 Ω
Qes	0.31
Qms	12.6
Qts	0.3
Vas	124 dm³ (4.38 ft³)
Sd	855 cm² (132.53 in²)
η ₀	4.0 %
X max	± 8.5 mm
X var	± 9.5 mm

Mms	94 g
Bl	20.15 T·m
Le	0.95 mH
EBP	151 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	374 mm (14.72 in)
Baffle Cutout Diameter	356 mm (14.02 in)
Depth	208 mm (8.19 in)
Flange and Gasket Thickness	15 mm (0.59 in)
Net Weight	7.3 kg (16.09 lb)
Shipping Weight	8.9 kg (19.62 lb)
Shipping Box	500x495x275 mm (19.69x19.49x10.83 in)
Crossover	FBCXN88
Service kit LF	RCK15CXN888
Service kit HF	MMD3DTN8M

¹ 1 Included by -6 dB down points.

² Applied RMS Voltage is set to 2.83V.

³ LF - Two hour test made with continuous pink noise signal within the range Fs-10Fs. HF - Two hour

test made with continuous pink noise signal within the range Fs-10Fs.

LF and HF Power calculated on rated minimum impedance Loudspeaker in free air.

⁴ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁵ 12 dB/oct. or higher slope high-pass filter.



18HTX100

ND TRIAXIAL

1600 W
continuous program
power capacity

60°x 40°
nominal coverage

FEA optimized horn
flare for improved
acoustic loading and
controlled coverage

100 dB (LF)
110 dB (MF/HF)
sensitivity

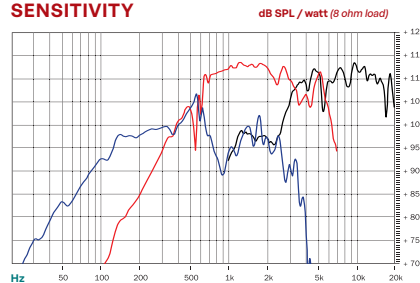
44 - 18000 Hz
response

Double silicone spider
with optimized
compliance

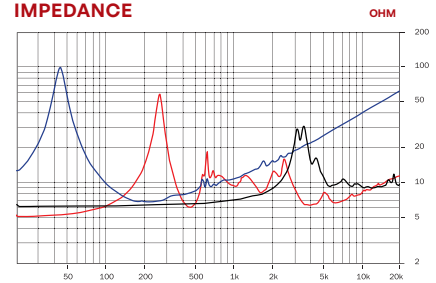
Aluminium
demodulating ring
for very low distortion



SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nom. Diameter	460 mm (18 in)
Nom. Impedance	8 Ω
Frequency Range	44 - 18000 Hz
Dispersion Angle ¹	60°x40°
Magnet Material	Neodymium Ring
Waterproof cone treatment	TWP Both sides

SPECIFICATIONS LF UNIT

Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Nominal Power Handling ²	800 W
Continuous Power Handling ³	1600 W
Sensitivity (1W/1m) ⁴	100 dB
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	25.1 mm (1.0 in)
Magnetic Gap Depth	10.2 mm (0.4 in)
Flux Density	1.5 T

SPECIFICATIONS MF UNIT

Nominal Impedance	8 Ω
Minimum Impedance	6 Ω
Nominal Power Handling ²	110 W
Continuous Power Handling ¹⁰	220 W
Sensitivity (1W/1m) ¹¹	110 dB
Frequency Range	0.5 - 5.5 kHz
Recommended Crossover ¹²	0.6 kHz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Inductance	0.21 mH
Diaphragm material	HT Polymer
Flux Density	1.9 T
Magnet Material	Neodymium Ring

¹ Included by -6 dB down points.

² Two hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.

³ Power on Continuous Program is

defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83V

⁵ Two hour test made with continuous pink noise signal within the range

from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.

⁶ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁷ Applied RMS Voltage is set to 2.83V

⁸ 12 dB/oct. or higher slope high-pass filter.

18HTX100

ND TRIAXIAL



SPECIFICATIONS HF UNIT

Nominal Impedance	8 Ω
Minimum Impedance	9 Ω
Nominal Power Handling ⁵	80 W
Continuous Power Handling ⁶	160 W
Sensitivity (1W/1m) ⁷	110 dB
Frequency Range	3.5 - 18.0 kHz
Recommended Crossover ⁸	4.0 kHz
Voice Coil Diameter	65 mm (2.5 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm material	HT Polymer
Flux Density	2.14 T
Magnet Material	Neodymium Inside Slug

THIELE & SMALL PARAMETERS¹³

Fs	44 Hz
Re	5.4 Ω
Qes	0.34
Qms	6.3
Qts	0.32
Vas	173 dm ³ (6.11 ft ³)
Sd	1210 cm ² (187.55 in ²)
η _o	4.3 %
X max	± 10 mm
X var	± 13 mm
Mms	158.5 g
Bl	26.3 T·m
Le	1.16 mH
EBP	129 Hz

MOUNTING AND SHIPPING INFORMATION

Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	440 mm (17.32 in)
Baffle Cutout Diameter	423 mm (16.65 in)
Depth	299 mm (11.77 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Net Weight	12.4 kg (27.34 lb)

HF replacement diaphragm **MMDDCX464HF8**
MF replacement diaphragm **MMDDCX464MF8**

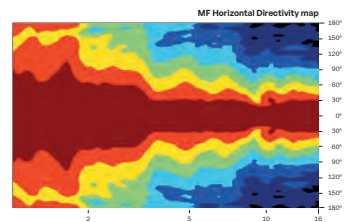
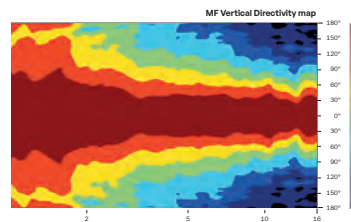
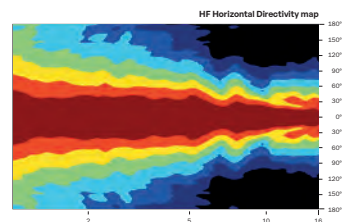
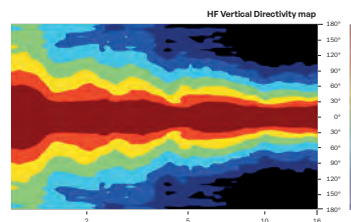
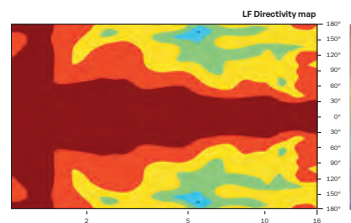
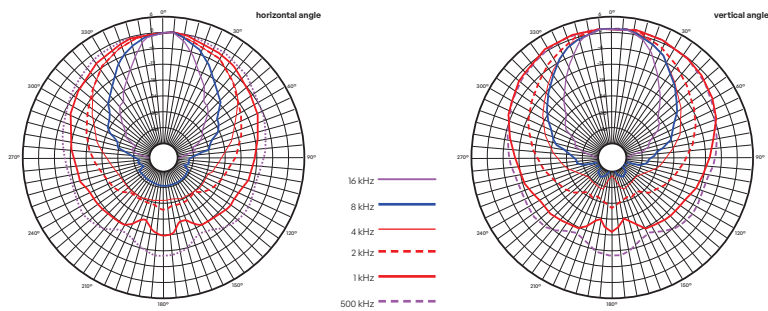
⁹ Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

¹⁰ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

¹¹ Applied RMS Voltage is set to 2.83V

¹² 12 dB/oct. or higher slope high-pass filter.

¹³ Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.



B&C Speakers has been a market leader in compression driver technology for decades. Our reliability and performance is second to none. We continue to work with a wide variety of materials to further improve the performance of our HF devices. Through our modeling programs we are able to analyze every aspect of the driver, and study the impact of key components on each design.

We use four different diaphragm materials: Mylar, pure Titanium, Polyimide, and a High Temperature Polymer. Each material has its own unique benefits and qualities. Mylar allows for an exceptionally smooth transient response. Pure Titanium provides high power handling and excellent reliability in the field. Polyimide also achieves high power handling and sensitivity, with a smooth top end response. Our industry leadership in High Temperature Polymer diaphragms provides higher sensitivity in the last octaves thanks to this lighter, stiffer material.

Standard features in our compression drivers include copper shorting rings, FEA optimized phase plugs, and edge-wound copper-clad aluminium voice coil wire.

The **DE618TN** has a completely redesigned diaphragm to incorporate a bent edge voice coil former, as well as new dome and surround geometry. These modifications combine to better control diaphragm displacement and deformations, resulting in lower distortion and a smoother higher frequency response above 10kHz.

The newest ring radiator offering from B&C speakers is the **DE36**, featuring a high temperature polymer diaphragm with a ferrite magnet motor. Extensive FEA modeling and physical testing over the last several years has culminated in a 1.5 inch (38mm) coil ring driver with outstanding sensitivity, high frequency extension, and compactness. A practical recommended crossover point of 1.8kHz and sensitivity of 108dB allow for a wide range of applications, including compact two way boxes and line arrays.

Also new are the **DE14** and **DE14TN**, improving on the industry standard DE12, 1" exit ferrite magnet high frequency driver. This 44mm (1.7") diaphragm driver now features an optimized phase plug and rear cap that improves frequency response with lower distortion.



DE10

FE HF DRIVER

40 W
continuous program
power capacity

25 mm (1 in)
aluminium voice coil

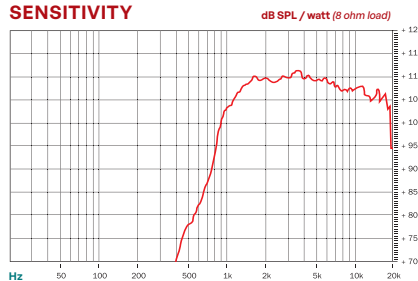
1"
horn throat
diameter

107 dB
sensitivity

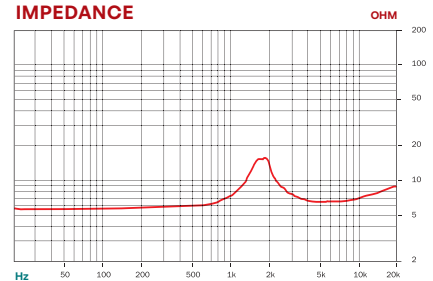
1500 - 18000 Hz
response

Polyester
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ²	20 W
Continuous Program ³	40 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2.5 kHz
Voice Coil Diameter	25 mm (1 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Polyester
Flux Density	1.55 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	90 mm (3.5 in)
Depth	53 mm (2.1 in)
Net Weight	0.8 kg (1.8 lb)
Shipping Weight	0.83 Kg (1.82 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)
Replacement Diaphragm	MMD0108

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 10 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.



DE12

FE HF DRIVER

50 W
continuous program
power capacity

36 mm (1.4 in)
aluminium voice coil

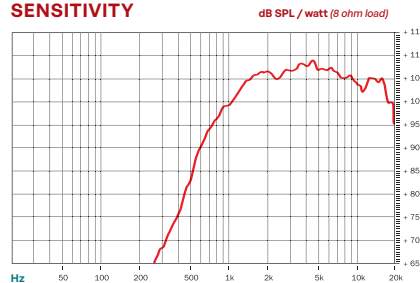
1"
horn throat
diameter

106 dB
sensitivity

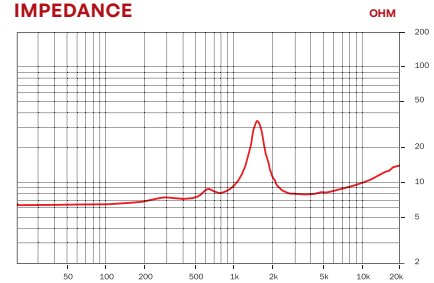
1500 - 18000 Hz
response

Polyester
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ²	25 W
Continuous Program ³	50 W
Sensitivity (1W/1m) ⁴	106 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2.2 kHz
Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Polyester
Flux Density	1.45 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	90 mm (3.5 in)
Depth	49 mm (2 in)
Net Weight	1 kg (2.2 lb)
Shipping Weight	1.03 Kg (2.26 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)

Replacement Diaphragm **MMD0128**

Also available in 16 Ω, data upon request
Also available DE12TC (Titanium diaphragm)

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.



DE14TN FE HF DRIVER

60 W
continuous program
power capacity

36 mm (1.4 in)
aluminium voice coil

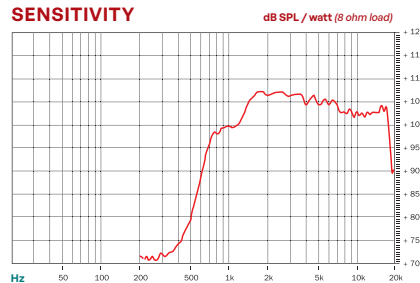
1"
horn throat
diameter

105 dB
sensitivity

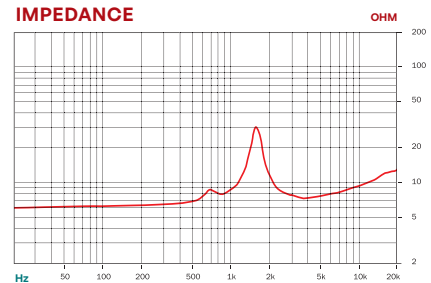
1500 - 18000 Hz
response

Titanium
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ²	30 W
Continuous Program ³	60 W
Sensitivity (1W/1m) ⁴	105 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2.2 kHz
Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.45 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 76 mm (3 in) diameter	
Three M6 holes 120° on 57 mm (2.2 in) diameter	
Overall Diameter	90 mm (3.5 in)
Depth	49 mm (2 in)
Net Weight	1.1 kg (2.4 lb)
Shipping Weight	1.13 Kg (2.49 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)

Replacement Diaphragm **MMD014TN8**

Also available in 16 Ω, data upon request
Also available DE 14 (Polyester diaphragm)

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

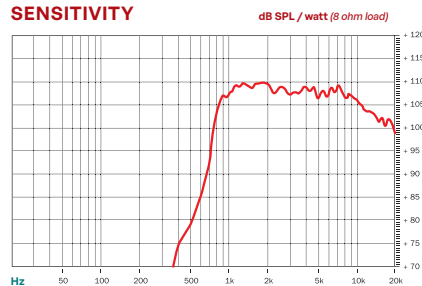


DE36

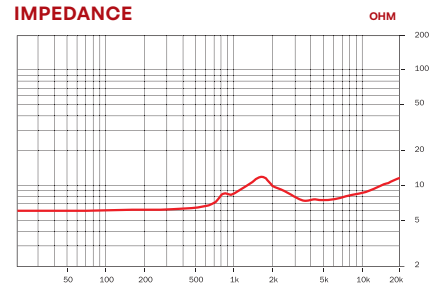
FE HF DRIVER

- **70 W**
continuous program
power capacity
- **38 mm (1.5 in)**
copper clad
aluminium voice coil
- **1"**
horn throat
diameter
- **107.5 dB**
sensitivity
- **1200 - 20000 Hz**
response
- Annular HT
Polyester
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.2 Ω
Power Handling	
Nominal (AES) ²	35 W
Continuous Program ³	70 W
Sensitivity (1W/1m) ⁴	107.5 dB

Frequency Range	1.2 - 20 kHz
Recommended crossover ⁵	1.8 kHz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Inductance	0.12 mH
Diaphragm Material	HT Polymer
Flux Density	1.6 T
Magnet Material	Ferrite

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	90 mm (3.54 in)
Depth	48 mm (1.89 in)
Net Weight)	1.1 kg (2.43 lb)
Shipping Weight	1.13 Kg (2.49 lb)
Shipping Box (8 units)	105x105x65 mm (4.13x4.13x2.56 in)

Replacement Diaphragm **MMD0368**

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance

Loudspeaker in free air.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.



DE160

FE HF DRIVER

80 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

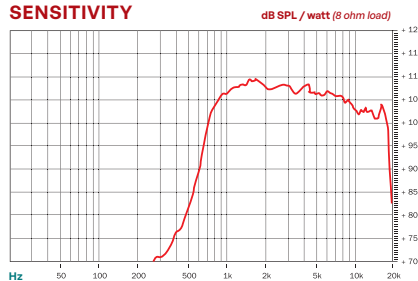
1"
horn throat
diameter

107 dB
sensitivity

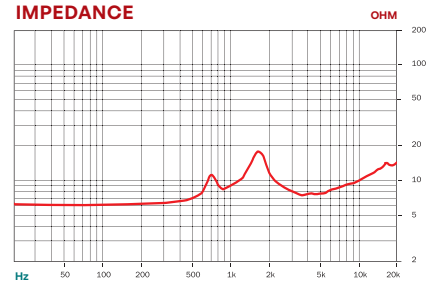
1500 - 18000 Hz
response

Polyester
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ²	40 W
Continuous Program ³	80 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.11 mH
Diaphragm Material	Polyester
Flux Density	1.5 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	102 mm (4 in)
Depth	61 mm (2.4 in)
Net Weight	1.6 kg (3.5 lb)
Shipping Weight	1.63 Kg (3.58 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)
Replacement Diaphragm	MMD25BTN8M

Also available in 16 Ω, data upon request
Also available DE200 (Titanium Diaphragm)

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.



DE180

FE HF DRIVER

120 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

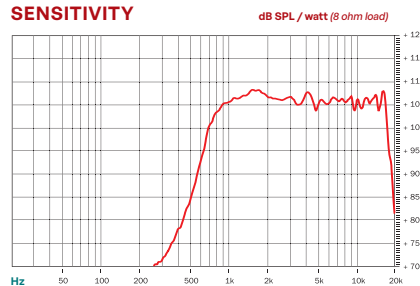
1"
horn throat
diameter

106.5 dB
sensitivity

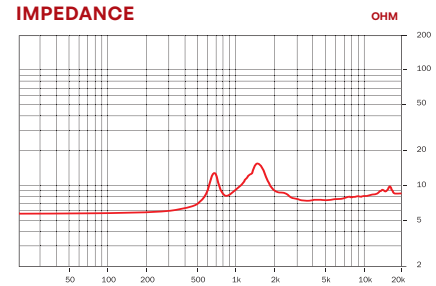
1000 - 17000 Hz
response

Polyimide
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ²	60 W
Continuous Program ³	120 W
Sensitivity (1W/1m) ⁴	106.5 dB

Frequency Range	1 - 17 kHz
Recommended crossover ⁵	2 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.12 mH
Diaphragm Material	Polyimide
Flux Density	1.35 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	102 mm (4.0 in)
Depth	61 mm (2.4 in)
Net Weight	1.6 kg (3.5 lb)
Shipping Weight	1.63 Kg (3.58 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)
Replacement Diaphragm	MMDE1808

Also available in 16 Ω, data upon request
Also available DE 200 (Titanium Diaphragm)
Also available DE160 (Polyester version)

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.



DE250

FE HF DRIVER

120 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

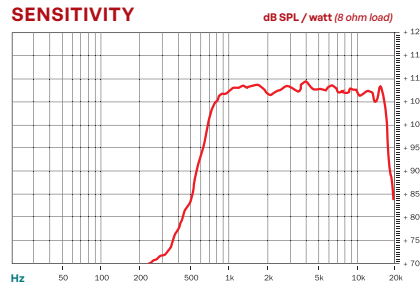
1"
horn throat
diameter

108.5 dB
sensitivity

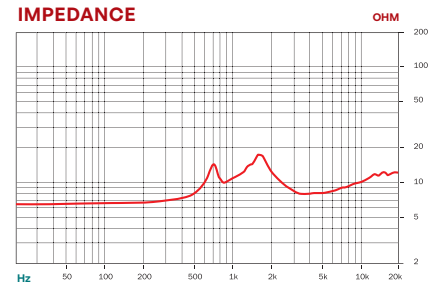
1000 - 18000 Hz
response

Polyester
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ²	60 W
Continuous Program ³	120 W
Sensitivity (1W/1m) ⁴	108.5 dB

Frequency Range	1 - 18 kHz
Recommended crossover ⁵	1.6 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.11 mH
Diaphragm Material	Polyimide
Flux Density	1.85 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Three M6 holes 120° on 57 mm (2.2 in) diameter	
Overall Diameter	120 mm (4.7 in)
Depth	62 mm (2.4 in)
Net Weight (1 unit)	2.1 kg (4.6 lb)
Shipping Weight (4 units)	8.85 kg (19.51 lb)
Shipping Box (4 units)	265x135x170 mm (10.43x5.31x6.69 in)

Replacement Diaphragm **MMDE2508**

Also available in 16 Ω, data upon request
Also available DE250TN (Titanium Diaphragm)
Also available DE254TN (Titanium Diaphragm/1.4" exit)

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.



DE250TN

FE HF DRIVER

120 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

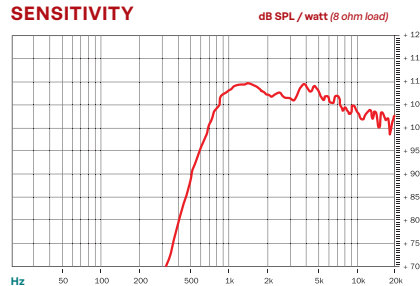
1"
horn throat
diameter

106 dB
sensitivity

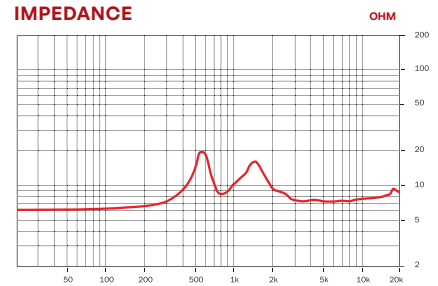
1000 - 18000 Hz
response

Titanium
diaphragm

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.4 Ω
Power Handling	
Nominal (AES) ²	60 W
Continuous Program ³	120 W
Sensitivity (1W/1m) ⁴	106 dB

Frequency Range	1.0 - 18 kHz
Recommended crossover ⁵	1.5 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.11 mH
Diaphragm Material	Titanium
Flux Density	1.85 T
Magnet Material	Ferrite

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Three M6 holes 120° on 57 mm (2.2 in) diameter	
Overall Diameter	120 mm (4.7 in)
Depth	62 mm (2.4 in)
Net Weight (1 unit)	2.1 kg (4.6 lb)
Shipping Weight (4 units)	8.85 kg (19.51 lb)
Shipping Box (4 units)	265x135x170 mm (10.43x5.31x6.69 in)

Replacement Diaphragm **MMD5028M**

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.

Aggiungere nota: Also available DE254TN (1.4" exit)



DE618TN

FE HF DRIVER

160 W
continuous program
power capacity

65 mm (2.5 in)
aluminium voice coil

Titanium
diaphragm

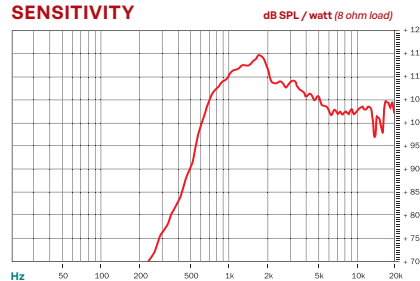
Ferrite magnet
assembly with
shorting copper cap

108 dB
sensitivity

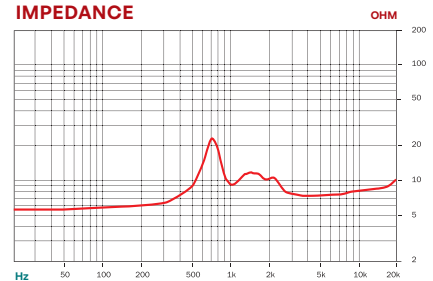
1000 - 18000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.3 Ω
Power Handling	
Nominal (AES) ²	80 W
Continuous Program ³	160 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	1 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	65 mm (2.5 in)
Winding Material	Aluminium
Inductance	0.15 mH
Diaphragm Material	Titanium
Flux Density	1.65 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	156 mm (6.14 in)
Depth	66 mm (2.6 in)
Net Weight	3.8 kg (8.38 lb)
Shipping Weight	3.92 kg (8.64 lb)
Shipping Box	190x190x80 mm (7.48x7.48x3.15 in)
Replacement Diaphragm	MMD25BTN8M

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.



DE60TN

FE HF DRIVER

220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

Titanium
diaphragm

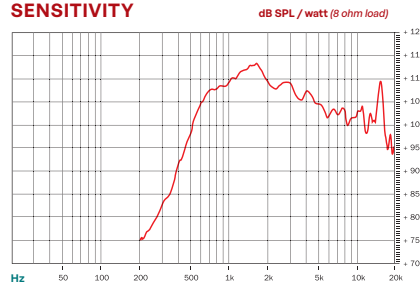
Shorting copper
cap for extended
HF response

107 dB
sensitivity

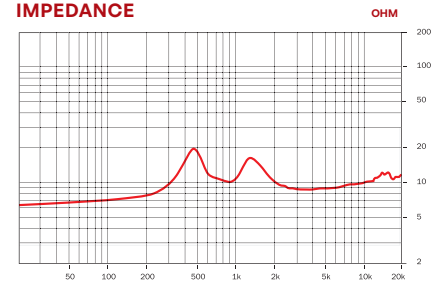
800 - 18000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.6 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.6 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	156 mm (6.1 in)
Depth	66 mm (2.6 in)
Net Weight	4.1 kg (9 lb)
Shipping Weight	4.62 Kg (10.19 lb)
Shipping Box	190x190x80 mm (7.48x7.48x3.15 in)
Replacement Diaphragm	MMD3BTN8M

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.



DE82TN

FE HF DRIVER

220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

Titanium
diaphragm

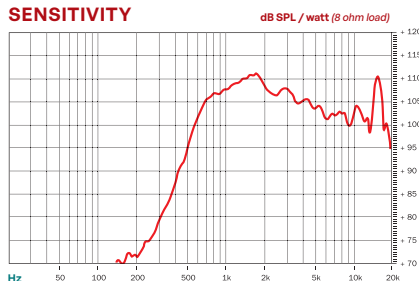
Shorting copper
cap for extended
HF response

106.5 dB
sensitivity

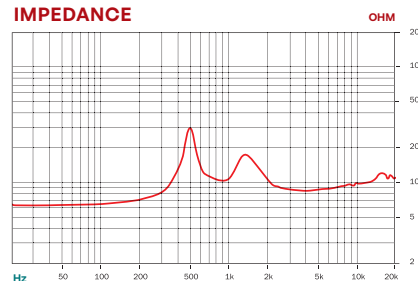
800 - 18000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.5 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	106.5 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	170 mm (6.7 in)
Depth	64 mm (2.5 in)
Net Weight	4.5 kg (9.9 lb)
Shipping Weight	4.62 Kg (10.19 lb)
Shipping Box	190x190x80 mm (7.48x7.48x3.15 in)
Replacement Diaphragm	MMD3ATN8

Also available in 16 Ω, data upon request

Also available DE82 (Titanium Diaphragm)

Also available DE85 (Polyester/Titanium Diaphragm)

¹ Driver mounted on B&C ME 90 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.



DE85TN

FE HF DRIVER

220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

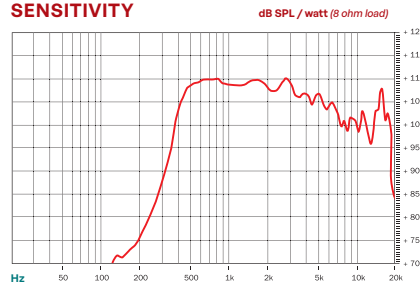
Titanium
diaphragm
Shorting copper
cap for extended
HF response

107 dB
sensitivity

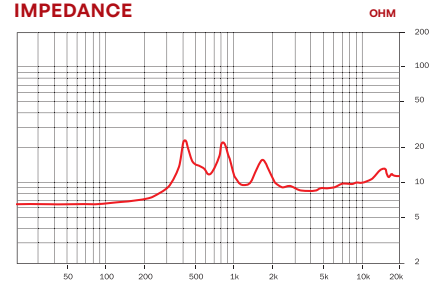
500 - 18000 Hz
response

2"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	50 mm (2 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.2 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Ferrite

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	170 mm (6.7 in)
Depth	64 mm (2.5 in)
Net Weight	4.5 kg (9.9 lb)
Shipping Weight	4.62 Kg (10.19 lb)
Shipping Box	190x190x80 mm (7.48x7.48x3.15 in)

Replacement Diaphragm **MMD3ATN8**

Also available in 16 Ω, data upon request
Also available DE85
(Polyester/Titanium Diaphragm)

¹ Driver mounted on B&C ME 75 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.



DE90TN

FE HF DRIVER

220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

Titanium
diaphragm

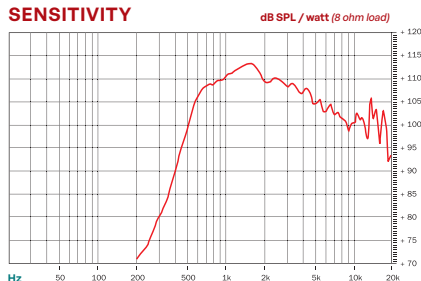
Shorting copper
cap for extended
HF response

107.5 dB
sensitivity

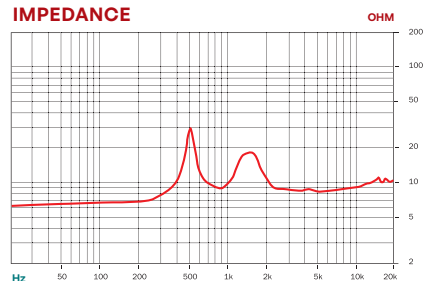
800 - 18000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.3 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	107.5 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

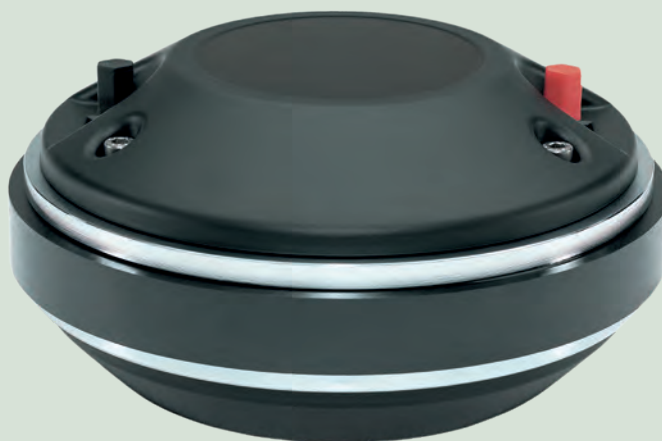
Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	170 mm (6.7 in)
Depth	65 mm (2.5 in)
Net Weight	4.5 kg (9.9 lb)
Shipping Weight	6.56 Kg (14.46 lb)
Shipping Box	190x190x120 mm (7.48x7.48x4.72 in)
Replacement Diaphragm	MMD3DTN8M

Also available in 16 Ω, data upon request
Also available DE95TN (with 50 mm/2.0 in exit)

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.



DE750TN

FE HF DRIVER

220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

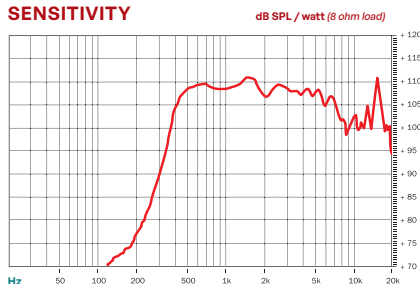
Titanium
diaphragm
Shorting copper
cap for extended
HF response

107.5 dB
sensitivity

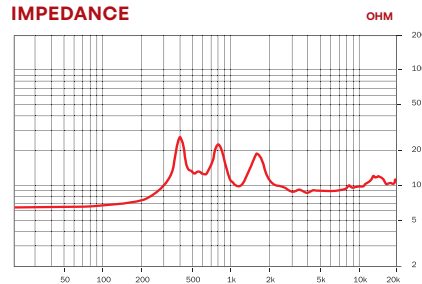
500 - 18000 Hz
response

2"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	50 mm (2 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	107.5 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	0.8 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Ferrite Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	180 mm (7.1 in)
Depth	87 mm (3.4 in)
Net Weight	6.3 kg (13.9 lb)
Shipping Weight	4.62 Kg (10.19 lb)
Shipping Box	190x190x80 mm (7.48x7.48x3.15 in)
Replacement Diaphragm	MMD3ATN8

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz.

Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.



B&C Speakers has been a leader in compression driver technology for decades. We are constantly advancing the science of high frequency driver development and adding new products to our range. The use of Neodymium magnets in our high frequency drivers has not only allowed us to dramatically reduce their size and weight, but also to improve performance and overall value.

Our reliability is second to none and we continue to work with a variety of materials to further improve performance. Through our Finite Element and Boundary Element modeling expertise we are able to analyze every aspect of the driver and study the impact of key components on each design.

We use four different diaphragm materials: Mylar, pure Titanium, Polyimide and High Temperature (HT) Polyester. Each material has its own unique benefits and qualities. Mylar allows for an exceptionally smooth transient response. Pure Titanium provides superb power handling and excellent reliability in the field. Polyimide achieves very high power handling and sensitivity levels, and creates a smooth

top end response. HT Polymer provides superior power handling and higher output levels in the upper octave ranges.

The new **DE360** ring radiator high frequency driver features a high temperature polymer diaphragm with a neodymium magnet motor. Extensive FEA modelling and physical testing over the last several years has culminated in these 1.5 inch (38mm) coil, ring radiator drivers with outstanding sensitivity, high frequency extension, and compactness. A suitable solution for a wide range of applications, including compact two-way point source boxes and line arrays.

The **DE680TN, DE880TN, DE980TN, DE990TN and DE1090TN** high frequency drivers debut a robust titanium diaphragm that incorporates next generation surround geometry, together with a brand new, optimized phase plug. Significant research has yielded a new coil former shape that solidifies the diaphragm with negligible increase in mass. The result is improved high frequency linearity and reduced distortion. They represent an excellent solution for two-way point source enclosures, as well as for mounting with a

waveguide horn in multi-driver line array systems.

Continuing this new series of highly damped titanium drivers is the **DE780TN**, a 3" coil 1.4" exit driver in a 112mm diameter package weighing only 3.5 lbs (1.6 kG). Aimed squarely at the line array market, this driver has exception high frequency sensitivity and allows unprecedented energy density when used in multiples within the same cabinet.

Dedicated midrange users have a new option to look forward to: the **DCM414** midrange compression driver. Using a newly developed 4" coil high temperature polymer ring diaphragm, it delivers more than five octaves of bandwidth from 300 – 6000Hz at 112dB average sensitivity. A 1.4" exit (or 2" in the **DCM420**) and a flat, lightweight form factor complete the offering. Brand new materials and thousands of hours of modeling and testing result in lower distortion at higher SPL than has ever been possible before, making the DCM414 the highest output midrange compression driver ever offered.



DE35

ND TWEETER

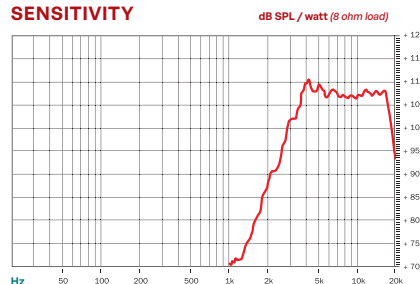
50 W
continuous program
power capacity

Neodymium
magnet assembly

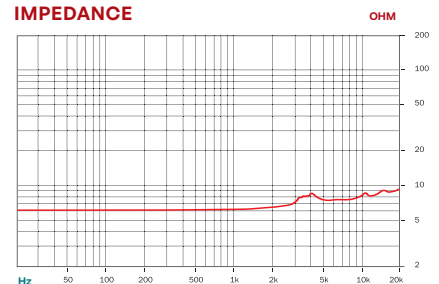
108 dB
sensitivity

3800 - 18000 Hz
response

SENSITIVITY



IMPEDANCE



SPECIFICATIONS

Nominal Impedance	8 Ω
Minimum Impedance	7 Ω
Power Handling	
Nominal (AES) ¹	25 W
Continuous Program ²	50 W
Sensitivity (1W/1m) ³	108 dB

Frequency Range	3.8 - 18 kHz
Recommended crossover ⁴	5 kHz
Voice Coil Diameter	32 mm (1.25 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Polyester
Flux Density	1.3 T
Magnet Material	Neodymium Inside Slug

MOUNTING AND SHIPPING INFORMATION

Three M4 holes 120° on 91 mm (3.6 in) diameter	
Overall Diameter	100 mm (4 in)
Depth	46 mm (1.8 in)
Net Weight	0.7 kg (1.5 lb)
Shipping Weight	0.73 Kg (1.60 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)

Replacement Diaphragm **MMD0358**

¹ Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.



DE7

ND HF DRIVER

20 W
continuous program
power capacity

25 mm (1 in)
aluminium voice coil

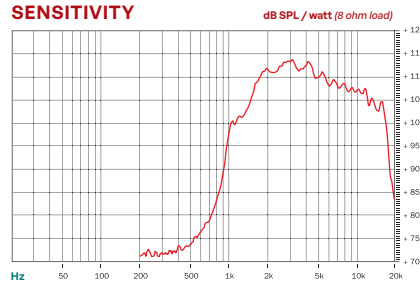
Polyimide
diaphragm

109 dB
sensitivity

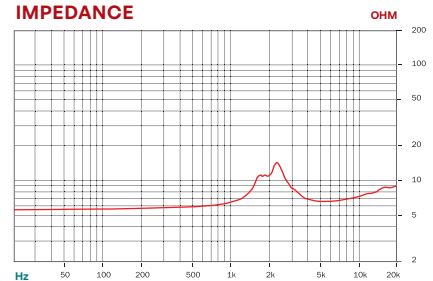
2000 - 18000 Hz
response

3/4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	19 mm (0.75 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Power Handling	
Nominal (AES) ²	10 W
Continuous Program ³	20 W
Sensitivity (1W/1m) ⁴	109 dB

Frequency Range	2 - 18 kHz
Recommended Crossover ⁵	2.5 kHz
Voice Coil Diameter	25 mm (1 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm material	Polyester
Flux Density	1.65 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M4 holes 180° on 53 mm (2.1 in) diameter	
Overall Diameter	62 mm (2.4 in)
Depth	35 mm (1.4 in)
Net Weight	0.17 kg (0.37 lb)
Shipping Weight	0.18 Kg (0.40 lb)
Shipping Box	65x55x40 mm (2.56x2.17x1.57 in)

Replacement Diaphragm **MMDE58**

Also available in 16 Ω, data upon request
Also available DE5 with 51 mm (0.5 in) exit

¹ Driver mounted on B&C ME7 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.

Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.



DE110

ND HF DRIVER

50 W
continuous program
power capacity

36 mm (1.4 in)
aluminium voice coil

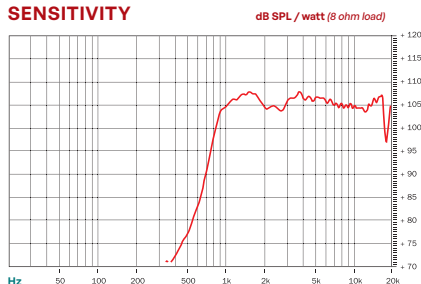
HT Polymer
diaphragm
Ultra Compact
60 mm diameter

106 dB
sensitivity

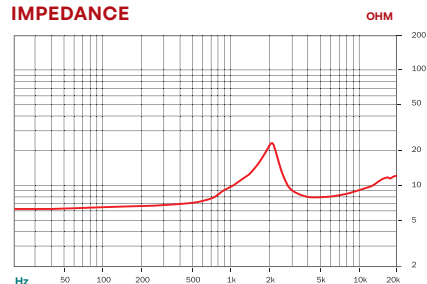
1500 - 18000 Hz
response

1"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8 Ω
Power Handling	
Nominal (AES) ²	25 W
Continuous Program ³	50 W
Sensitivity (1W/1m) ⁴	106 dB

Frequency Range	1.5 - 18 kHz
Recommended crossover ⁵	2 kHz
Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 52 mm (2.05 in) diameter	
Overall Diameter	60 mm (2.36 in)
Depth	35 mm (1.38 in)
Net Weight	0.32 kg (0.71 lb)
Shipping Weight	0.35 Kg (0.76 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)

Replacement Diaphragm **MMDDE1088**

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.



DE111

ND HF DRIVER

50 W
continuous program
power capacity

36 mm (1.4 in)
aluminium voice coil

HT Polymer
diaphragm

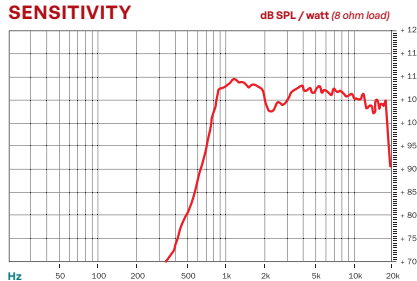
Ultra Compact
60mm diameter

107 dB
sensitivity

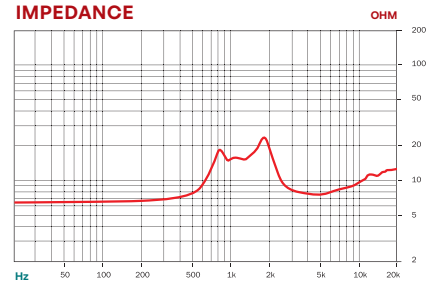
1000 - 17000 Hz
response

1"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.0 Ω
Power Handling	
Nominal (AES) ²	25 W
Continuous Program ³	50 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1.0 - 17 kHz
Recommended Crossover ⁵	1.2 kHz
Voice Coil Diameter	36 mm (1.4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm material	HT Polymer
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M5 holes 180° on 52 mm (2.05 in) diameter	
Overall Diameter	60 mm (2.36 in)
Depth	36 mm (1.42 in)
Net Weight	0.32 kg (0.71 lb)
Shipping Weight	0.35 Kg (0.76 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)

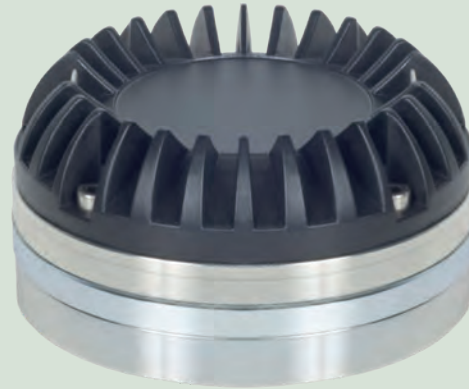
Replacement Diaphragm **MMDDE1118**

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

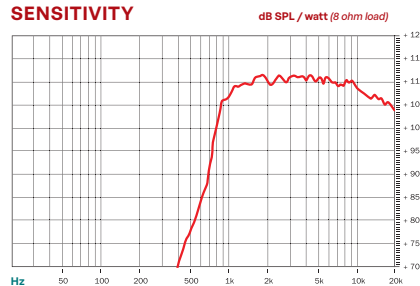


DE360

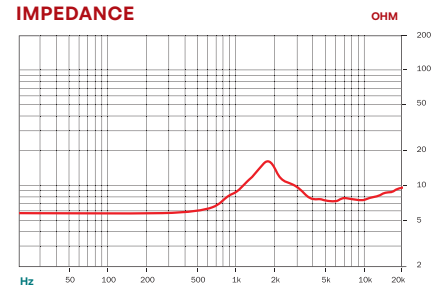
ND HF DRIVER

- **70 W**
continuous program
power capacity
- **38 mm (1.5 in)**
copper clad
aluminium voice coil
- Annular HT
Polyester
diaphragm
- **110 dB**
sensitivity
- **1200 - 20000 Hz**
response
- **1"**
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.6 Ω
Power Handling	
Nominal (AES) ²	35 W
Continuous Program ³	70 W
Sensitivity (1W/1m) ⁴	110 dB

Frequency Range	1.2 - 20 kHz
Recommended crossover ⁵	1.8 kHz
Voice Coil Diameter	38 mm (1.5 in)
Winding Material	Aluminium
Inductance	0.12 mH
Diaphragm Material	HT Polymer
Flux Density	2 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 57 mm (2.2 in) diameter	
Three M6 holes 120° on 57 mm (2.2 in) diameter	
Overall Diameter	71 mm (2.8 in)
Depth	37 mm (1.46 in)
Net Weight	0.5 kg (1.1 lb)
Shipping Weight	0.53 kg (1.16 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)

Replacement Diaphragm **MMD0368**

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵ 12 dB/oct. or higher slope high-pass filter.

Also available in 16 Ω, data upon request

DE400TN

ND HF DRIVER



100 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

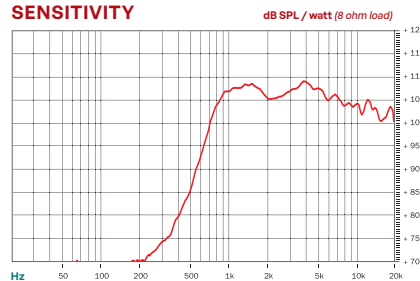
Titanium diaphragm
Shorting copper cap for extended HF response
Optimized Neodymium magnet assembly

106 dB
sensitivity

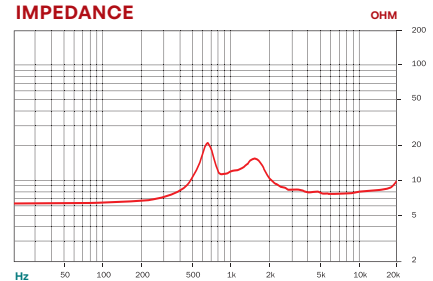
1200 - 18000 Hz
response

1"
horn throat diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ²	50 W
Continuous Program ³	100 W
Sensitivity (1W/1m) ⁴	106 dB

Frequency Range	1.2 - 18 kHz
Recommended crossover ⁵	1.5 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.11 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	85 mm (3.3in)
Depth	44 mm (1.7 in)
Net Weight	0.8 kg (1.8 lb)
Shipping Weight	0.83 kg (1.82 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)
Replacement Diaphragm	MMD400TN8

Also available in 16 Ω, data upon request
Also available DE400 (Polyimide Diaphragm)

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.⁵ 12 dB/oct. or higher slope high-pass filter.



DE502

ND HF DRIVER

100 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

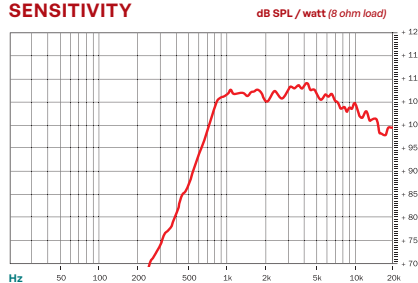
Titanium diaphragm
Shorting copper
cap for extended
HF response
Optimized
Neodymium
magnet assembly

107 dB
sensitivity

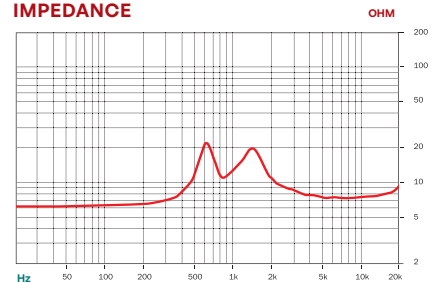
1000 - 18000 Hz
response

1"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.3 Ω
Power Handling	
Nominal (AES) ²	50 W
Continuous Program ³	100 W
Sensitivity (1W/1m) ⁴	107 dB

Frequency Range	1 - 18 kHz
Recommended crossover ⁵	1.5 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.12 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Three M6 holes 120° on 57 mm (2.2 in) diameter	
Overall Diameter	102 mm (4 in)
Depth	51 mm (2 in)
Net Weight	1.4 kg (3.1 lb)
Shipping Weight	1.43 kg (3.14 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)

Replacement Diaphragm **MMD5028**

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.

DE550TN

ND HF DRIVER



140 W
continuous program
power capacity

51 mm (2 in)
aluminium voice coil

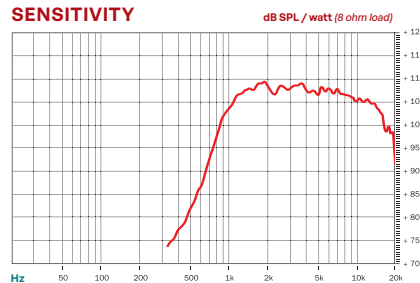
HT Polymer
diaphragm
Bent edge voice coil
former for more
linear HF response

108 dB
sensitivity

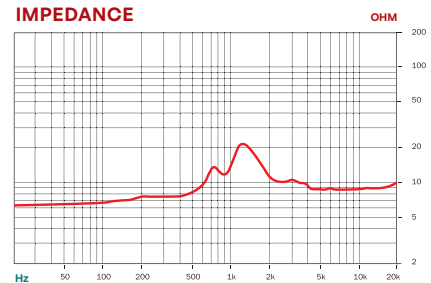
1000 - 17000 Hz
response

1"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.4 Ω
Power Handling	
Nominal (AES) ²	70 W
Continuous Program ³	140 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	1 - 17 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	Aluminium
Inductance	0.12 mH
Diaphragm Material	Titanium
Flux Density	2.0 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Two M6 holes 180° on 76 mm (3 in) diameter	
Overall Diameter	92 mm (3.6 in)
Depth	49 mm (1.9 in)
Net Weight	1.25 kg (2.76 lb)
Shipping Weight	1.28 kg (2.81 lb)
Shipping Box	105x105x65 mm (4.13x4.13x2.56 in)
Replacement Diaphragm	MMD550TN8

Also available in 16 Ω, data upon request
Also available DE550 (HT Polymer Diaphragm)

¹ Driver mounted on B&C ME 45 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
⁵ Average SPL from 2000 to 18000 Hz.⁵ 12 dB/oct. or higher slope high-pass filter.

DE680TN

ND HF DRIVER



160 W
continuous program
power capacity

65 mm (2.5 in)
aluminium voice coil

Titanium
diaphragm

Bent edge voice coil
former for more
linear HF response

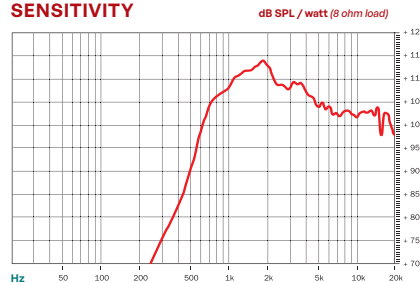
Shorting copper
cap for extended
HF response

108 dB
sensitivity

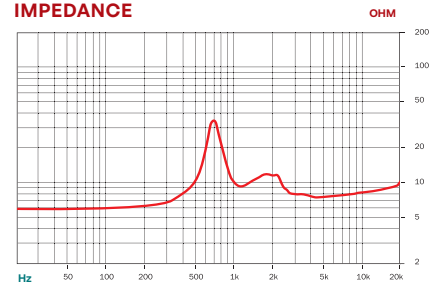
800 - 18000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ²	80 W
Continuous Program ³	160 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	65 mm (2.5 in)
Winding Material	Aluminium
Inductance	0.15 mH
Diaphragm Material	Titanium
Flux Density	1.8 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	115 mm (4.5 in)
Depth	51 mm (2.01 in)
Net Weight	1.75 Kg (3.85 lb)
Shipping Weight	1.79 Kg (3.94 lb)
Shipping Box	120x120x65 mm (4.72x4.72x2.56 in)

Replacement Diaphragm **MMD25BTN8M**

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE780TN

ND HF DRIVER



220 W
continuous program
power capacity

75 mm (3 in)
copper clad
aluminium voice coil

Titanium
diaphragm

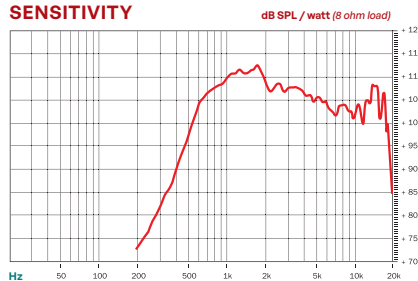
Shorting copper
cap for extended
HF response

108 dB
sensitivity

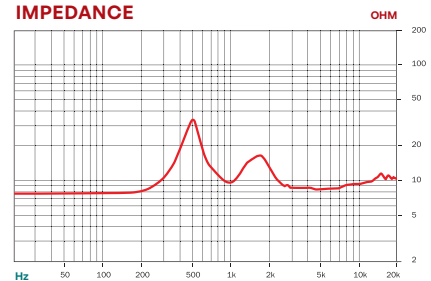
800 - 18000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.7 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminium
Inductance	0.04 mH
Diaphragm Material	Titanium
Flux Density	1.95 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	112 mm (4.41 in)
Depth	56 mm (2.2 in)
Net Weight	1.6 kg (3.53 lb)
Shipping Weight	1.64 Kg (3.6 lb)
Shipping Box	120x120x65 mm (4.72x4.72x2.56 in)
Replacement Diaphragm	MMD3FTN8M

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
⁵ Average SPL from 2000 to 18000 Hz.⁵ 12 dB/oct. or higher slope high-pass filter.

DE880TN

ND HF DRIVER



220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

Bent edge voice coil
former for more
linear HF response

Shorting copper
cap for extended
HF response

Titanium
diaphragm

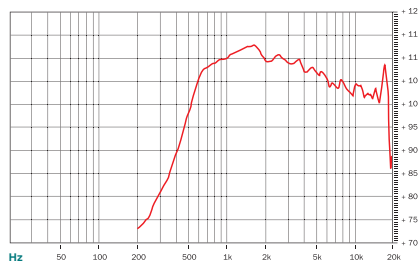
108 dB
sensitivity

800 - 18000 Hz
response

1.4"
horn throat
diameter

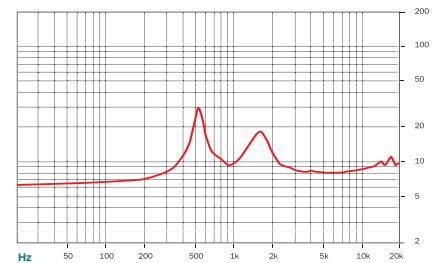
SENSITIVITY

dB SPL / watt (8 ohm load)



IMPEDANCE

OHM



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.1 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	1.85 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	124 mm (4.9 in)
Depth	54.4 mm (2.1 in)
Net Weight	2.1 kg (4.6 lb)
Shipping Weight	2.15 Kg (4.73 lb)
Shipping Box	140x135x62 mm (5.51x5.31x2.44 in)

Replacement Diaphragm **MMD3DTN8M**

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.

DE980TN

ND HF DRIVER



220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

Bent edge voice coil
former for more
linear HF response

Shorting copper
cap for extended
HF response

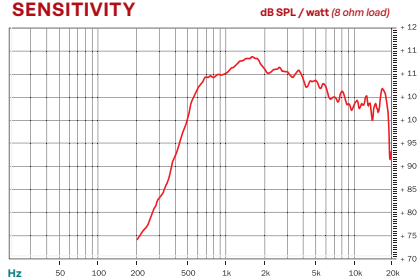
Titanium
diaphragm

108.5 dB
sensitivity

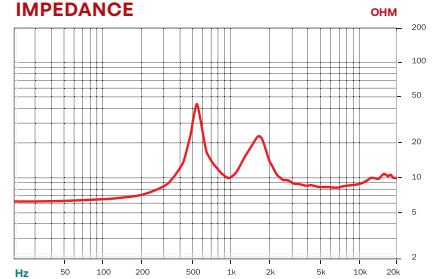
800 - 18000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.1 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108.5 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.2 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	2.05 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	131 mm (5.2 in)
Depth	54 mm (2.13 in)
Net Weight	2.3 kg (5.1 lb)
Shipping Weight	2.35 Kg (5.17 lb)
Shipping Box	140x135x62 mm (5.51x5.31x2.44 in)
Replacement Diaphragm	MMD3DTN8M

Also available in 16 Ω, data upon request
Also available DE985TN (2" exit)

¹ Driver mounted on B&C ME 90 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.

Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE990TN

ND HF DRIVER



200 W
continuous program
power capacity

86 mm (3.4 in)
aluminium voice coil

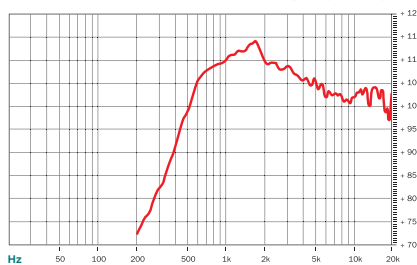
Bent edge voice coil
former for more
linear HF response
Shorting copper
cap for extended
HF response

107.5 dB
sensitivity

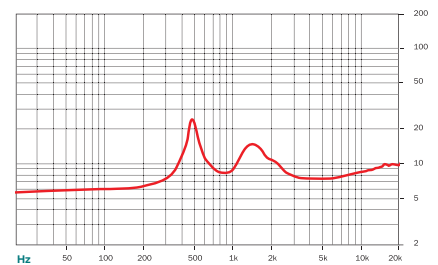
800 - 18000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.6 Ω
Power Handling	
Nominal (AES) ²	100 W
Continuous Program ³	200 W
Sensitivity (1W/1m) ⁴	107.5 dB

Frequency Range	0.8 - 18 kHz
Recommended crossover ⁵	1.0 kHz
Voice Coil Diameter	86 mm (3.4 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Neo Inside Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	118 mm (4.65 in)
Depth	63 mm (2.48 in)
Net Weight	1.85 kg (4.08 lb)
Shipping Weight	1.89 Kg (4.16 lb)
Shipping Box	120x120x65 mm (4.72x4.72x2.56 in)

Replacement Diaphragm **MMD35ETN8M**

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 90 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.

Average SPL from 2000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.

DE991TN

ND HF DRIVER



220 W
continuous program
power capacity

86 mm (3.4 in)
aluminium voice coil

Shorting copper
cap for extended
HF response

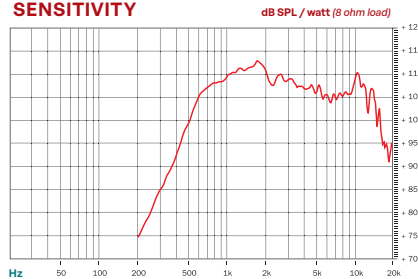
Titanium
diaphragm

108.5 dB
sensitivity

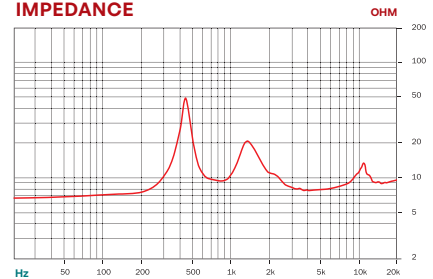
800 - 17000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ²	100 W
Continuous Program ³	200 W
Sensitivity (1W/1m) ⁴	108.5 dB

Frequency Range	0.8 - 17 kHz
Recommended crossover ⁵	1.0 kHz
Voice Coil Diameter	86 mm (3.4 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	1.94 T
Magnet Material	Neo Inside Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	115 mm (4.53 in)
Depth	64 mm (2.52 in)
Net Weight	2.0 kg (4.41 lb)
Shipping Weight	2.04 Kg (4.49 lb)
Shipping Box	120x120x65 mm (4.72x4.72x2.56 in)

Replacement Diaphragm **MMD35FTN8M**

Also available in 16 Ω, data upon request
Also available DE985TN (2" exit)

¹ Driver mounted on B&C ME 90 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
Average SPL from 2000 to 18000 Hz.
⁵ 12 dB/oct. or higher slope high-pass filter.

DE1090TN

ND HF DRIVER



240 W
continuous program
power capacity

100 mm (4 in)
aluminium voice coil

Bent edge voice coil
former for more
linear HF response

Shorting copper
cap for extended
HF response

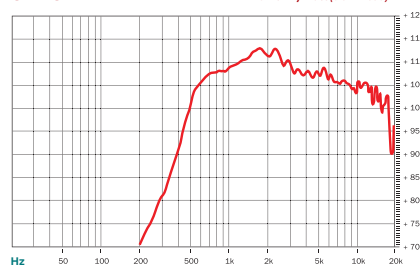
Titanium
diaphragm

108 dB
sensitivity

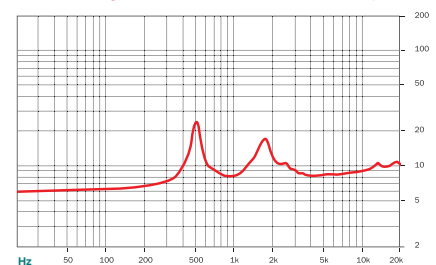
500 - 20000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.3 Ω
Power Handling	
Nominal (AES) ²	120 W
Continuous Program ³	240 W
Sensitivity (1W/1m) ⁴	108.0 dB

Frequency Range	0.5 - 20 kHz
Recommended crossover ⁵	0.8 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.18 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Neo Inside Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	127 mm (5.0 in)
Depth	54mm (2.13 in)
Net Weight	1.9 kg (4.19 lb)
Shipping Weight	1.95 Kg (4.29 lb)
Shipping Box	140x135x62 mm (5.51x5.31x2.44 in)
Replacement Diaphragm	MMD4CTN8M

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 60 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.⁵ 12 dB/oct. or higher slope high-pass filter.

DE885TN

ND HF DRIVER



220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

Bent edge voice coil
former for more
linear HF response

Shorting copper
cap for extended
HF response

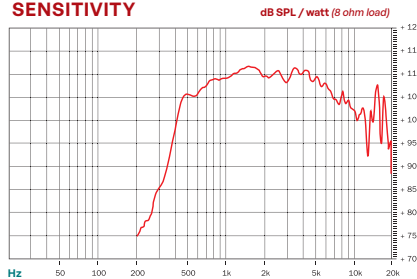
Titanium
diaphragm

108.5 dB
sensitivity

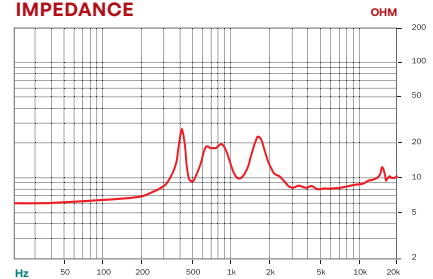
500 - 18000 Hz
response

2"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	50 mm (2.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108.5 dB

Frequency Range	0.5 - 18 kHz
Recommended crossover ⁵	1.0 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	Titanium
Flux Density	1.85 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	124 mm (4.88 in)
Depth	88 mm (3.46 in)
Net Weight	2.4 kg (5.29 lb)
Shipping Weight	2.47 Kg (5.45 lb)
Shipping Box	135x135x93 mm (5.31x5.31x3.66 in)

Replacement Diaphragm **MMD3DTN8M**

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 60 horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.
⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.
⁵ Average SPL from 2000 to 18000 Hz.⁵ 12 dB/oct. or higher slope high-pass filter.

DE1085TN

ND HF DRIVER



280 W
continuous program
power capacity

100 mm (4 in)
aluminium voice coil

Bent edge voice coil
former for more
linear HF response

Shorting copper
cap for extended
HF response

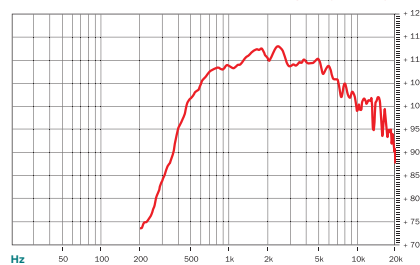
Titanium
diaphragm

109 dB
sensitivity

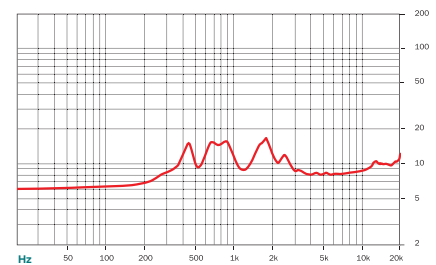
500 - 20000 Hz
response

2"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	50 mm (2.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.0 Ω
Power Handling	
Nominal (AES) ²	140 W
Continuous Program ³	280 W
Sensitivity (1W/1m) ⁴	109 dB

Frequency Range	0.5 - 20 kHz
Recommended crossover ⁵	0.8 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.18 mH
Diaphragm Material	Titanium
Flux Density	1.95 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	154 mm (6.1 in)
Depth	86 mm (3.39 in)
Net Weight	3.6 kg (7.9 lb)
Shipping Weight	3.9 kg (8.6 lb)
Shipping Box	190x190x120 mm (7.48x7.48x4.72 in)
Replacement Diaphragm	MMD4BTN8M

Also available in 16 Ω, data upon request

¹ Driver mounted on B&C ME 60 horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the minimum rating.

⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.

Average SPL from 2000 to 18000 Hz. Average SPL from 1000 to 18000 Hz.

⁵ 12 dB/oct. or higher slope high-pass filter.



DCM414

ND MF DRIVER

220 W
continuous program
power capacity

100 mm (4 in)
aluminium voice coil

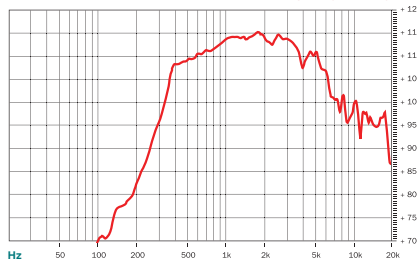
Neodymium
magnet assembly

112 dB
sensitivity

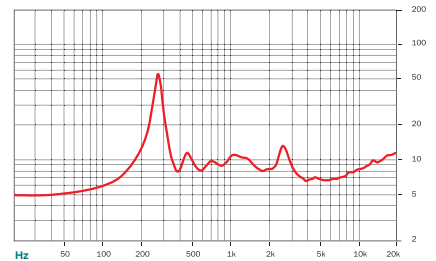
300 - 6000 Hz
response

1.4"
horn throat
diameter

SENSITIVITY



IMPEDANCE



SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	112 dB

Frequency Range	0.3 - 6 kHz
Recommended crossover ⁵	0.3 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.28 mH
Diaphragm Material	HT Polymer
Flux Density	1.9 T
Magnet Material	Neodymium Ring

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	152 mm (6 in)
Depth	62 mm (2.44 in)
Net Weight	2.3 Kg (5.07 lb)
Shipping Weight	2.5 kg (5.51 lb)
Shipping Box	170x170x140 mm (6.69x6.69x5.51 in)

Replacement Diaphragm **MMDDCX464MF8**

Also available in 16 Ω, data upon request
Also available DCM420 (2" exit)

¹ Driver mounted on B&C Lab Exponential horn.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover

frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 2000 to 18000 Hz. ⁵ 12 dB/oct. or higher slope high-pass filter.



Compression drivers are the linchpin of a PA system: operating at wavelengths too small to readily couple with other drivers, they alone have to fight distance and atmospheric losses to deliver concert sound pressure levels to ever larger audiences. At the limit of materials, design, and the critical understanding of sound quality and application that only B&C can deliver, lies our new line of coaxial compression drivers. Two diaphragms working in concert to cover a wider

frequency range than ever before, minimizing fatigue-inducing distortion to keep your audience enthralled.

Patented technology merges their output to provide flexibility to designers. Patent pending diaphragm shape provides maximum durability without negative modal behaviour, and all work together to provide the highest sensitivity and power handling possible today.

DCX354

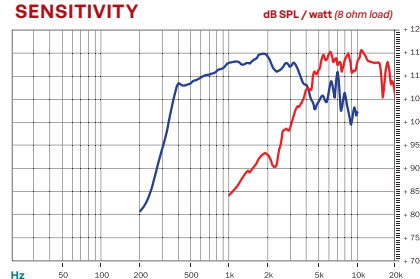
ND MF/HF COAXIAL



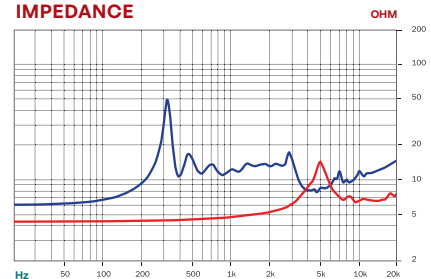
- **180 W**
continuous program
power capacity
- **76 mm (3 in) - MF**
51 mm (2 in) - HF
aluminium voice coil
- Neodymium magnet
assembly
- **111.1 dB - MF**
112.8 dB - HF
sensitivity
- **400 - 20000 Hz**
response
- **1.4"**
horn throat
diameter

Time coherent coaxial
ring radiator design
(Patents EP3644623B1,
US11343608B2, CN111107472A)

SENSITIVITY



IMPEDANCE



SPECIFICATIONS MF¹

Nominal Impedance	8 Ω
Minimum Impedance	7.9 Ω
Power Handling (0,3 - 3 kHz)	
Nominal (AES) ²	90 W
Continuous Program ³	180 W
Sensitivity (1W/1m) ⁴	111.1 dB
Frequency Range	0.4 - 6.0 kHz
Recommended crossover ⁵	0.4 kHz
Voice Coil Diameter	76 mm (3.0 in)
Winding Material	Aluminium
Inductance	0.26 mH
Diaphragm Material	HT Polymer
Flux Density	1.93 T
Magnet Material	Neodymium Ring

SPECIFICATIONS HF⁶

Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Power Handling (4 - 20 kHz)	
Nominal (AES) ⁷	50 W
Continuous Program ⁸	100 W
Sensitivity (1W/1m) ⁹	112.8 dB
Frequency Range	5 - 20 kHz
Recommended crossover ¹⁰	4.5 kHz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	Aluminium
Inductance	0.1 mH
Diaphragm Material	HT Polymer
Flux Density	1.96 T
Magnet Material	Neodymium Inside Slug

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	130 mm (5.12 in)
Depth	73 mm (2.87 in)
Net Weight	2.5 kg (5.51 lb)
Shipping Weight	2.7 kg (5.95 lb)
Shipping Box	170x170x140 mm (6.69x6.69x5.51 in)

¹ Driver mounted on 320 Hz exponential horn.

² AES Standard

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.

⁵ 12 dB/oct. or higher slope high-pass filter.

⁶ Driver mounted on 320 Hz exponential horn.

⁷ AES Standard

⁸ Power on Continuous Program is

defined as 3 dB greater than the Nominal rating.

⁹ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

¹⁰ 12 dB/oct. or higher slope high-pass filter.

DCX464

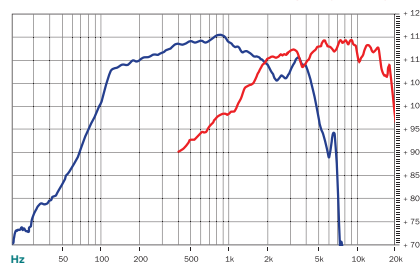
ND MF/HF COAXIAL



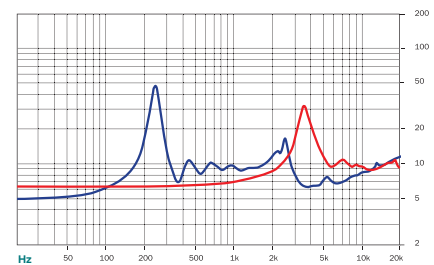
- **220 W**
continuous program
power capacity
- **100 mm (4 in) - MF**
65 mm (2.5 in) - HF
aluminium voice coil
- Neodymium
magnet assembly
- **111.1 dB - MF**
111.4 dB - HF
sensitivity
- **300 - 18000 Hz**
response
- **1.4"**
horn throat
diameter

Time coherent coaxial
ring radiator design
(Patents EP3644623B1,
US11343608B2, CN111107472A)

SENSITIVITY



IMPEDANCE



SPECIFICATIONS MF¹

Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling (0,3 - 3 kHz)	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	111.1 dB
Frequency Range	0.3 - 5.5 kHz
Recommended crossover ⁵	0.3 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	1.90 T
Magnet Material	Neodymium Ring

SPECIFICATIONS HF¹

Nominal Impedance	8 Ω
Minimum Impedance	9 Ω
Power Handling (4 - 20 kHz)	
Nominal (AES) ²	80 W
Continuous Program ³	160 W
Sensitivity (1W/1m) ⁴	111.4 dB
Frequency Range	3.5 - 18 kHz
Recommended crossover ⁵	4 kHz
Voice Coil Diameter	65 mm (2.55 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	2.14 T
Magnet Material	Neodymium Inside Slug

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	152 mm (5.98 in)
Depth	78 mm (3.07 in)
Net Weight	3.7 kg (8.2 lb)
Shipping Weight	3.9 kg (8.6 lb)
Shipping Box	170x170x140 mm (6.69x6.69x5.51 in)
Crossover	FB4648
Replacement Diaphragm	MF: MMDDCX464MF8 HF: MMDDCX464HF8

Also available in 16 Ω, data upon request
Also available DCX462 (2" exit)

¹ Driver mounted on 320 Hz exponential horn.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover

frequency to 3 kHz (MF) and 20kHz (HF). Power calculated on rated ³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
⁵ 12 dB/oct. or higher slope high-pass filter.

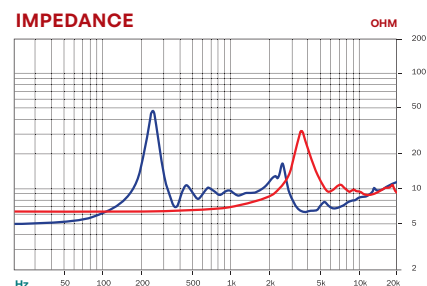
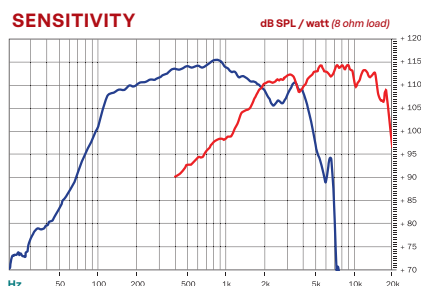
DCX462

ND MF/HF COAXIAL



- **220 W**
continuous program
power capacity
- **100 mm (4 in) - MF**
65 mm (2.5 in) - HF
aluminium voice coil
- Neodymium
magnet assembly
- **111.1 dB - MF**
111.4 dB - HF
sensitivity
- **300 - 18000 Hz**
response
- **2"**
horn throat
diameter

Time coherent coaxial
ring radiator design
(Patents EP3644623B1,
US11343608B2, CN111107472A)



SPECIFICATIONS MF¹

Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Power Handling (0,3 - 3 kHz)	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	111.1 dB
Frequency Range	0.3 - 5.5 kHz
Recommended crossover ⁵	0.3 kHz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	1.90 T
Magnet Material	Neodymium Ring

SPECIFICATIONS HF¹

Nominal Impedance	8 Ω
Minimum Impedance	9 Ω
Power Handling (4 - 20 kHz)	
Nominal (AES) ²	80 W
Continuous Program ³	160 W
Sensitivity (1W/1m) ⁴	111.4 dB
Frequency Range	3.5 - 18 kHz
Recommended crossover ⁵	4 kHz
Voice Coil Diameter	65 mm (2.55 in)
Winding Material	Aluminium
Inductance	0.14 mH
Diaphragm Material	HT Polymer
Flux Density	2.14 T
Magnet Material	Neodymium Inside Slug

MOUNTING AND SHIPPING INFORMATION

Four M6 holes 90° on 102 mm (4 in) diameter	
Overall Diameter	152 mm (5.98 in)
Depth	110 mm (4.33 in)
Net Weight	4 kg (8.8 lb)
Shipping Weight	4.2 kg (9.26 lb)
Shipping Box	170x170x140 mm (6.69x6.69x5.51 in)
Crossover	FB464
Replacement Diaphragm	MF: MMDDCX464MF8 HF: MMDDCX464HF8

Also available in 16 Ω, data upon request
Also available DCX462 (2" exit)

¹ Driver mounted on 320 Hz exponential frequency to 3 kHz (MF) and 20kHz (HF). Power calculated on rated frequency.
² Two hour test made with continuous pink noise signal within the range from the recommended crossover
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
⁵ 12 dB/oct. or higher slope high-pass filter.



Modern sound reinforcement has as its building block the line array loudspeaker, which uniquely requires wavefront shaping to provide coherent summation and pattern control. B&C Speakers offers pre-assembled solutions, matching our own waveguides with appropriate high frequency drivers, to take the guesswork out of line source design. Since our **DCX** series now reaches frequencies below 500Hz new horn and waveguide designs were required to maintain driver loading below 1kHz.

The **WGX** and **WG** series are based on our state of the art neodymium compression drivers coupled to a proprietary waveguide. These specially designed acoustic lenses create

a well-behaved phase-coherent wavefront up to 15 kHz, and offer a very high Active Radiating Factor. Our engineering team has performed all of the critical tests to ensure that each aspect of line array performance has been carefully considered.

The **WGX** and **WG** series are available as a complete assembly, combined with a wide variety of our 1" and 1.4" exit high frequency drivers.

For point source solutions the ME464 is the largest horn available for purchase, designed for the durability needs of portable use. Consistent loading and directivity control below 400Hz matches perfectly with our **DCX** and **DCM** series of ring radiator compression drivers.



WG7

LINE ARRAY

WAVEGUIDE+HF DRIVERS

220 W
continuous program
power capacity

25 mm (1 in)
aluminium voice coil

Line Array optimized
Waveguide with two
DE7 HF drivers

Compact Neodymium
magnet assembly
Mylar diaphragm

107.0 dB
sensitivity

2000 - 18000 Hz
response

150°
max horizontal
coverage

SPECIFICATIONS¹

Nominal Impedance	4 Ω
Horizontal Coverage	150° max
Active Radiating Factor	94.7 %
Waveguide Material	ABS

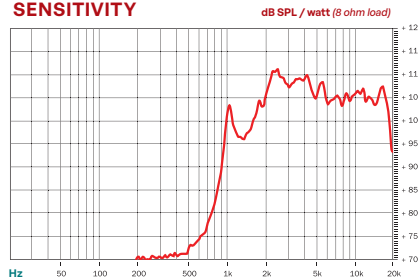
SPECIFICATIONS HF UNIT

Minimum Impedance	3.6 Ω
Power Handling	
Nominal (AES) ²	20 W
Continuous Program ³	40 W
Sensitivity (1W/1m) ⁴	107.0 dB
Frequency Range	2.0 - 18.0 kHz
Voice Coil Diameter	25 mm (1.0 in)
Winding Material	Aluminium
Diaphragm Material	Mylar
Flux Density	1.65 T
Recommended Crossover ⁵	2.0 kHz
Winding Material	Aluminium
Magnet Material	Neodymium Ring

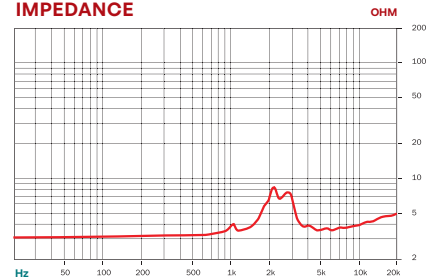
MOUNTING AND SHIPPING INFORMATION

Exit Size	138x19 mm (5.43x0.75 in)
Driver Diameter	46 mm (1.8 in)
Dimensions	144x114x80 mm (5.7x4.5x3.2 in)
Net Weight	0.5 kg (1.1 lb)
Shipping Units	1
Shipping Weight	0.56 kg (1.23 lb)
Shipping Box	150x130x90 mm (5.91x5.12x3.54 in)

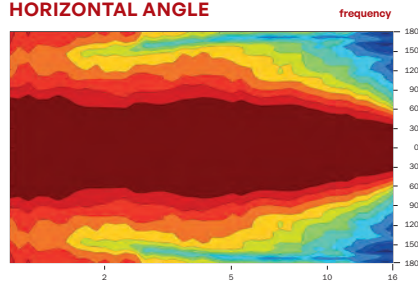
SENSITIVITY



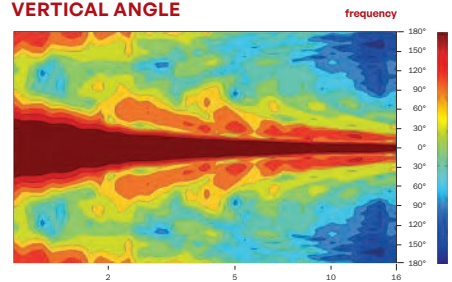
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



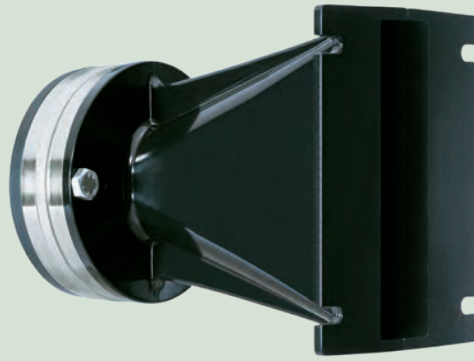
¹ Data measured with two 8 ohm drivers in parallel connection
² Two hour test made with continuous pink noise signal (6 dB crest factor)
³ Power on Continuous Program is defined as 3 dB greater than the

recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.
⁵ 12 dB/oct. Or higher slope high-pass filter.

Nominal rating.
⁴ Applied RMS Voltage is set to 2 V for 4 ohm Nominal Impedance.
⁵ 12 dB/oct. Or higher slope high-pass filter.

WG400

LINE ARRAY SOURCE



100 W
continuous program
power capacity

44 mm (1.7 in)
aluminium voice coil

Line Array optimized
Waveguide with
DE400 HF driver

Polyimide diaphragm
Compact Neodymium
magnet assembly

108.5 dB
sensitivity

1200 - 18000 Hz
response

140°
max horizontal
coverage

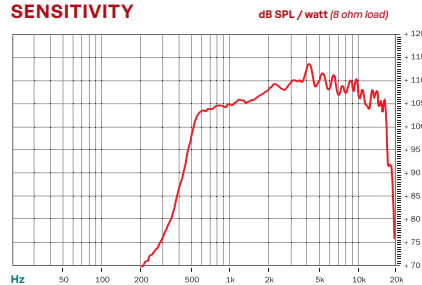
SPECIFICATIONS

Horizontal Coverage	140° max
Active Radiating Factor	92.5 %
Recommended Crossover ¹	1.5 kHz
Waveguide Material	Cast Aluminium
Nominal Impedance	8 Ω
Minimum Impedance	7.7 Ω
Power Handling	
Nominal (AES) ²	50 W
Continuous Program ³	100 W
Sensitivity (1W/1m) ⁴	108.5 dB
Frequency Range ⁵	1.2 - 18 kHz
Voice Coil Diameter	44 mm (1.7 in)
Winding Material	Aluminium
Inductance	0.18 mH
Diaphragm Material	Polyimide
Flux Density	1.8 T
Magnet Material	Neodymium Ring

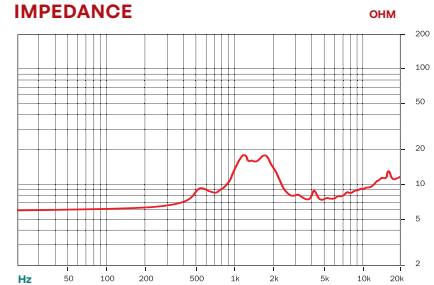
MOUNTING AND SHIPPING INFORMATION

Waveguide Baffle	
Cutout	102x25 mm (4x1 in)
Driver diameter	86 mm (3.3 in)
Dimensions	111x87x155 mm (4.4x3.5x6.1 in)
Net Weight	1.3 kg (2.9 lb)
Shipping Weight (4 units)	5.8 kg (12.79 lb)
Shipping Box (4 units)	265x245x240 mm (10.43x9.65x9.45 in)

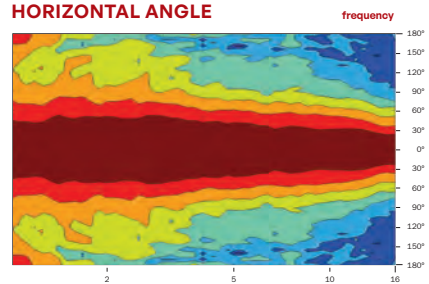
SENSITIVITY



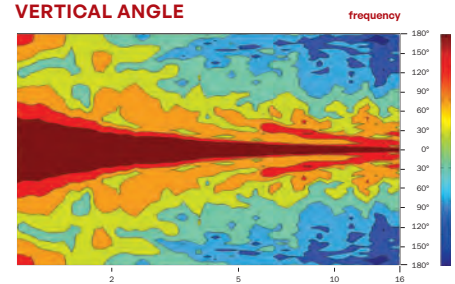
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



Waveguide not sold separately.
Not available in the USA.

¹ 12 dB/oct. or higher slope high-pass filter.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover

frequency to 20 kHz. Power calculated on rated minimum impedance.

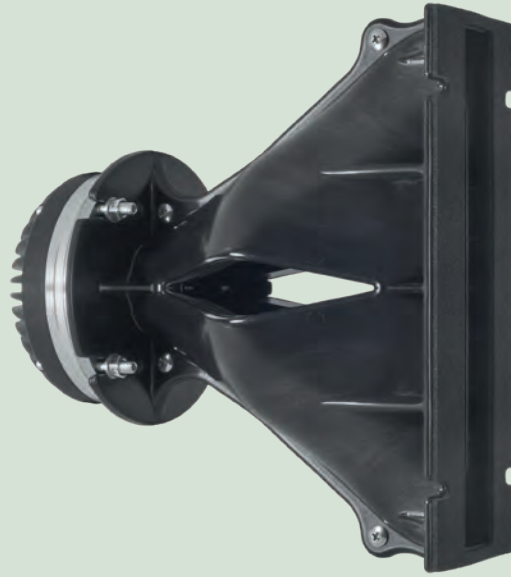
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁵ Waveguide mounted on 90° x 10° bell horn.

WG148-780TN

LINE ARRAY SOURCE



220 W
continuous program
power capacity

120°
max horizontal
coverage

Shorting copper
cap for extended
HF response

107.6 dB
sensitivity

500 - 18000 Hz
response

Line Array optimized
Waveguide with
DE780TN8 HF driver

SPECIFICATIONS

Nominal Impedance	8 Ω
Horizontal Coverage	120° max
Active Radiating Factor	93.3 %
Waveguide Material	ABS

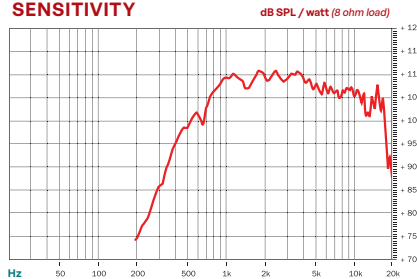
SPECIFICATIONS HF UNIT

Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ¹	110 W
Continuous Program ²	120 W
Sensitivity (1W/1m) ³	107.6 dB
Frequency Range ⁴	0.5 - 18.0 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Flux Density	1.95 T
Recommended Crossover ⁵	1.0 kHz
Winding Material	Aluminium
Magnet Material	Neodymium Ring

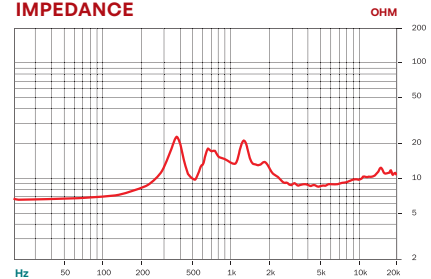
MOUNTING AND SHIPPING INFORMATION

Exit Size	224x25 mm (8.8x1 in)
Driver Diameter	112 mm (4.41 in)
Dimensions	240x80x230.6 mm (9.45x3.15x9.08 in)
Net Weight	2.38 kg (5.25 lb)

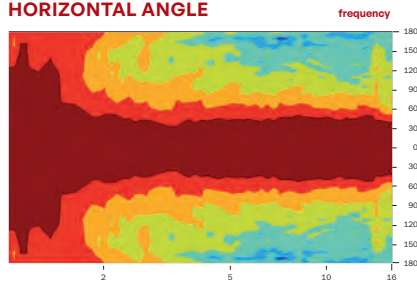
SENSITIVITY



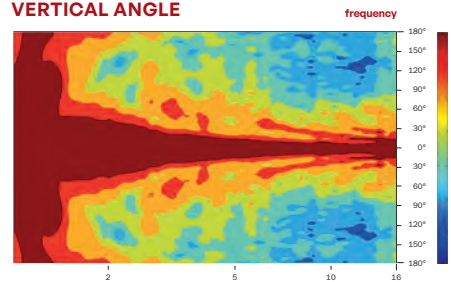
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



¹ Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ Waveguide mounted on 90°x10° bell horn

⁵ 12 dB/oct. Or higher slope high-pass filter.

WGX880TN

LINE ARRAY SOURCE



**HORN
DRIVER
COMBINATIONS**

220 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

Line Array optimized
for DE880TN HF driver

Titanium diaphragm

Shorting copper
cap for extended
HF response

108 dB
sensitivity

500 - 17000 Hz
response

120°
max horizontal
coverage

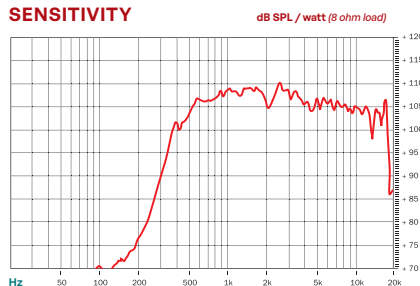
SPECIFICATIONS

Horizontal Coverage	120 ° max
Active Radiating Factor	93.7 %
Recommended Crossover ¹	0.8 kHz
Waveguide Material	Cast Aluminium
Nominal Impedance	8 Ω
Minimum Impedance	8.1 Ω
Power Handling	
Nominal (AES) ²	110 W
Continuous Program ³	220 W
Sensitivity (1W/1m) ⁴	108 dB
Frequency Range ⁵	0.5 - 17 kHz
Voice Coil Diameter	75 mm (3 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Flux Density	1.85 T
Magnet Material	Neodymium Ring

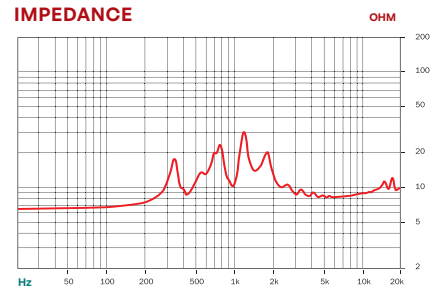
MOUNTING AND SHIPPING INFORMATION

Waveguide Baffle	
Cutout	153x25 mm (6x1 in)
Driver diameter	124 mm (4.9 in)
Dimensions	163x130x235 mm (6.4x5.1x9.3 in)
Net Weight	3.1 kg (6.83 lb)
Shipping Weight	3.2 kg (7.05 lb)
Shipping Box	245x140x175 mm (9.6x5.5x6.9 in)

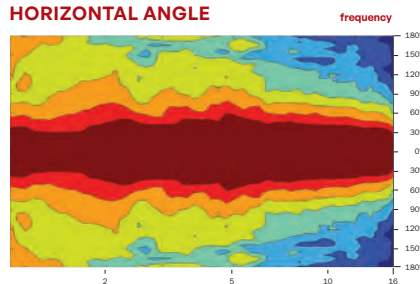
SENSITIVITY



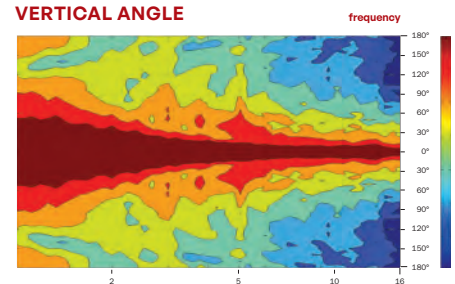
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



¹ 12 dB/oct. Or higher slope high-pass filter.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover

frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

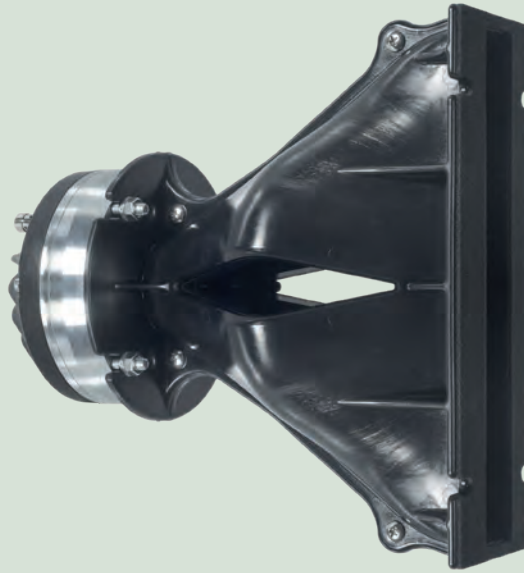
⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

Average SPL from 2000 to 18000 Hz.
⁵ Waveguide mounted on 90° x 10° bell horn.

Waveguide not sold separately.

WG148-991TN

LINE ARRAY SOURCE



200 W
continuous program
power capacity

75 mm (3 in)
aluminium voice coil

Line Array optimized
Waveguide with
DE991TN8 HF driver

Titanium diaphragm
Shorting copper cap for
extended HF response

108.5 dB
sensitivity

500 - 17000 Hz
response

120°
max horizontal
coverage

SPECIFICATIONS

Nominal Impedance	8 Ω
Horizontal Coverage	120° max
Active Radiating Factor	93.3 %
Waveguide Material	ABS

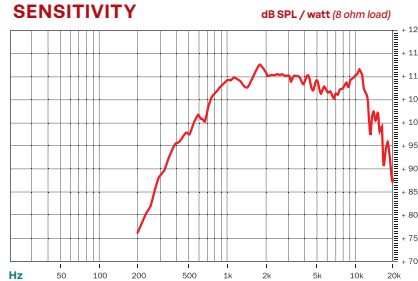
SPECIFICATIONS HF UNIT

Minimum Impedance	7.8 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	200 W
Sensitivity (1W/1m) ³	108.5 dB
Frequency Range ⁴	0.5 - 17.0 kHz
Voice Coil Diameter	86 mm (3.4 in)
Winding Material	Aluminium
Diaphragm Material	Titanium
Flux Density	1.94 T
Recommended Crossover ¹	1.0 kHz
Winding Material	Aluminium
Magnet Material	Neodymium Ring

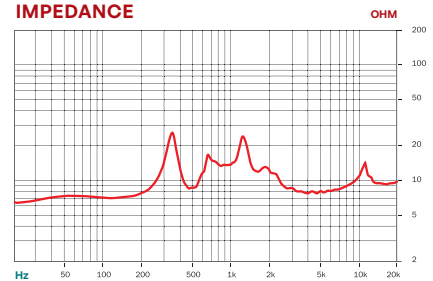
MOUNTING AND SHIPPING INFORMATION

Exit Size	224x25 mm (8.8x1 in)
Driver Diameter	115 mm (4.53 in)
Dimensions	240x80x240.6 mm (9.45x3.15x9.47 in)
Net Weight	2.78 kg (6.13 lb)

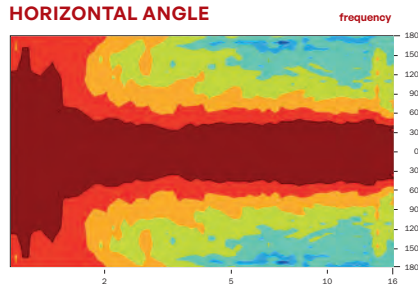
SENSITIVITY



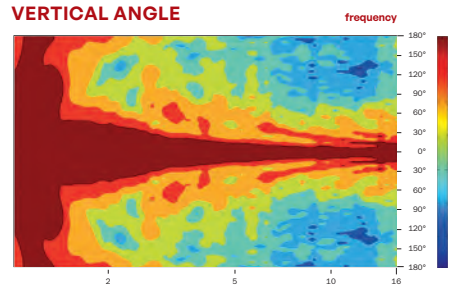
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



¹ 12 dB/oct. Or higher slope high-pass filter.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover

frequency to 20 kHz. Power calculated on rated minimum impedance.

³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁵ Waveguide mounted on 90°x10° bell horn

WGX1090TN

LINE ARRAY SOURCE



240 W
continuous program
power capacity

100 mm (4 in)
aluminium voice coil

Line Array optimized
Waveguide with
DE1090TN HF driver

Titanium diaphragm

Neodymium magnet
assembly with shorting
copper cap

108 dB
sensitivity

500 - 18000 Hz
response

120°
max horizontal
coverage

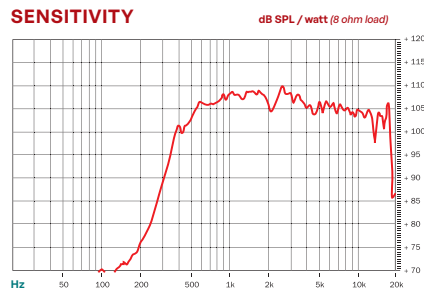
SPECIFICATIONS

Horizontal Coverage	120° max
Active Radiating Factor	93.7 %
Recommended Crossover ¹	0.8 kHz
Waveguide Material	Cast Aluminium
Nominal Impedance	8 Ω
Minimum Impedance	8 Ω
Power Handling	
Nominal (AES) ²	120 W
Continuous Program ³	240 W
Sensitivity (1W/1m) ⁴	108 dB
Frequency Range ⁵	0.5 - 18 kHz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Inductance	0.18 mH
Diaphragm Material	Titanium
Flux Density	1.9 T
Magnet Material	Neo Inside Ring

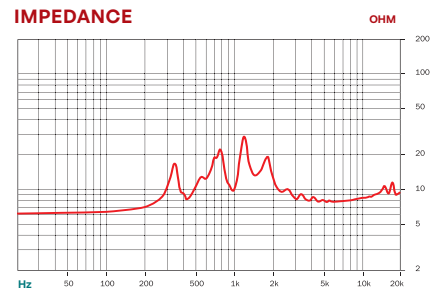
MOUNTING AND SHIPPING INFORMATION

Waveguide Baffle	
Cutout	153x25 mm (6x1 in)
Driver diameter	127 mm (5.0 in)
Dimensions	163x130x234 mm (6.4x5.1x9.2 in)
Net Weight	2.9 kg (6.39 lb)
Shipping Weight	3 kg (6.61 lb)
Shipping Box	245x140x175 mm (9.6x5.5x6.9 in)

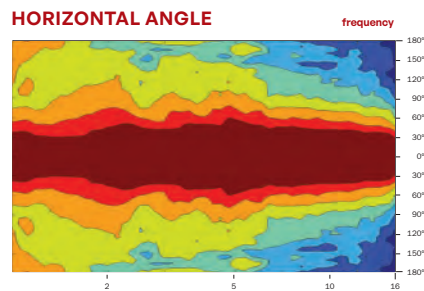
SENSITIVITY



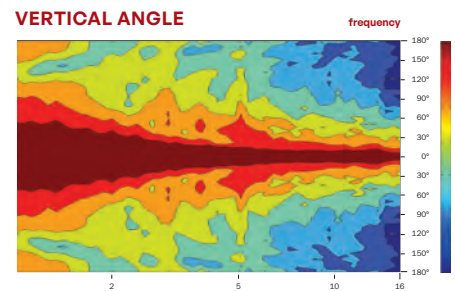
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



Waveguide not sold separately.

¹ 12 dB/oct. or higher slope high-pass filter.

² Two hour test made with continuous pink noise signal within the range from the recommended crossover

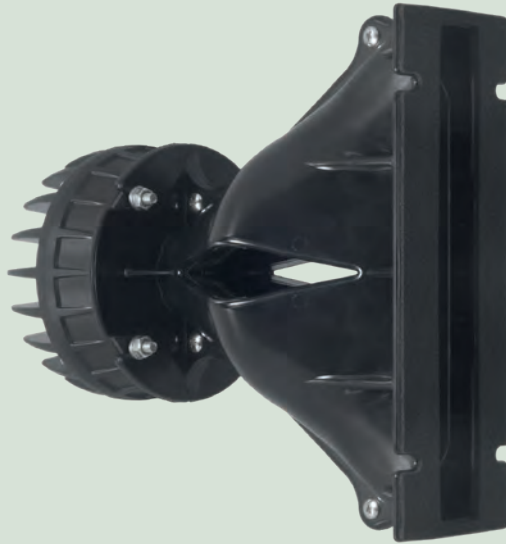
frequency to 20 kHz. Power calculated on rated minimum impedance.
³ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁴ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance. Average SPL from 2000 to 18000 Hz.

⁵ Waveguide mounted on 90° x 10° bell horn.

WG148-354

LINE ARRAY WAVEGUIDE+HF COAX



180 W
continuous program
power capacity

76 mm (3 in) - MF
51 mm (2 in) - HF
aluminium voice coil

Line Array optimized
Waveguide with
DCX354 HF Coax

Neodymium
magnet assembly

110.1 dB
sensitivity

500 - 20000 Hz
response

120°
max horizontal
coverage

Time coherent coaxial ring radiator design (Patents EP3644623B1, US11343608B2, CN111107472A)

SPECIFICATIONS¹

Nominal Impedance	8 Ω
Horizontal Coverage	120° max
Active Radiating Factor	93.3 %
Waveguide Material	ABS

SPECIFICATIONS MF UNIT

Minimum Impedance	7.9 Ω
Power Handling	
Nominal (AES) ⁶	90 W
Continuous Program ⁷	180 W
Sensitivity (1W/1m) ⁸	108.7 dB
Frequency Range	0.4 - 6.0 kHz
Voice Coil Diameter	76 mm (3.0 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Flux Density	1.93 T
Recommended Crossover ⁹	0.4 kHz
Magnet Material	Neodymium Ring

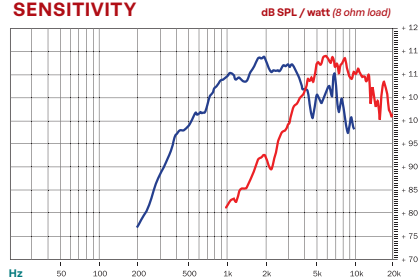
SPECIFICATIONS HF UNIT

Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ³	50 W
Continuous Program ⁴	100 W
Sensitivity (1W/1m) ⁵	110.1 dB
Frequency Range	5.0 - 20.0 kHz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Flux Density	1.96 T
Recommended Crossover	4.5 kHz
Magnet Material	Neodymium Ring

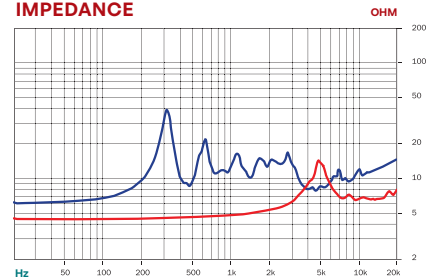
MOUNTING AND SHIPPING INFORMATION

Driver diameter	130 mm (5.12 in)
Net Weight	3.1 kg (6.83 lb)

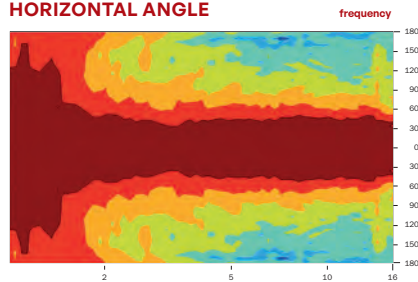
SENSITIVITY



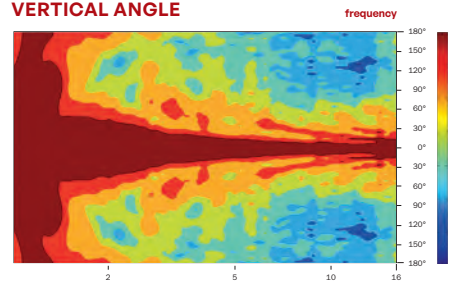
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



¹ Waveguide mounted on 90°x10° bell horn.
² 12 dB/oct. Or higher slope high-pass filter.
³ AES Standard
⁴ Power on Continuous Program is

defined as 3 dB greater than the Nominal rating.
⁵ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
⁶ AES Standard
⁷ Power on Continuous Program is

defined as 3 dB greater than the Nominal rating.
⁸ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
⁹ 12 dB/oct. Or higher slope high-pass filter.

WG148-464

LINE ARRAY WAVEGUIDE+HF COAX



220 W
continuous program
power capacity

100 mm (4 in)
65mm (2.5 in)
aluminium voice coil

Line Array optimized
Waveguide with
DCX464 HF Coax

Neodymium
magnet assembly

109.1 dB
sensitivity

3500 - 18000 Hz
response

120°
max horizontal
coverage

Time coherent coaxial ring radiator design (Patents EP3644623B1, US11343608B2, CN111107472A)

SPECIFICATIONS

Nominal Impedance	8 Ω
Horizontal Coverage	120 ° max
Active Radiating Factor	93.3 %
Waveguide Material	ABS

SPECIFICATIONS MF UNIT

Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES) ⁵	110 W
Continuous Program ⁶	220 W
Sensitivity (1W/1m) ⁷	109.1 dB
Frequency Range	0.3 - 5.5 kHz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Flux Density	1.9 T
Recommended Crossover ⁸	0.3 kHz
Magnet Material	Neodymium Ring

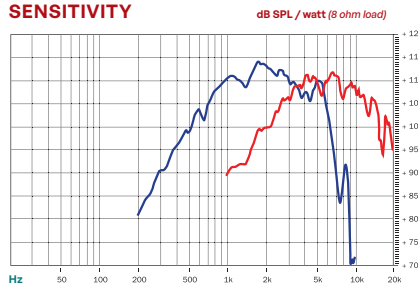
SPECIFICATIONS HF UNIT

Minimum Impedance	9.1 Ω
Power Handling	
Nominal (AES) ¹	80 W
Continuous Program ²	160 W
Sensitivity (1W/1m) ³	107.6 dB
Frequency Range	3.5 - 18.0 kHz
Voice Coil Diameter	65 mm (2.56 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Flux Density	2.14 T
Recommended Crossover ⁴	4.0 kHz
Magnet Material	Neo Inside Ring

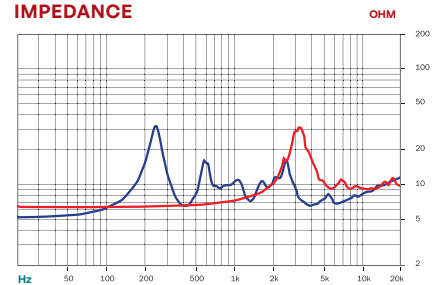
MOUNTING AND SHIPPING INFORMATION

Driver diameter	152 mm (5.98 in)
Net Weight	4.48 kg (9.88 lb)

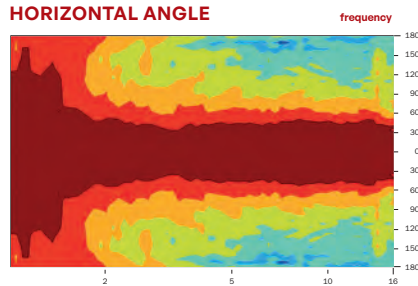
SENSITIVITY



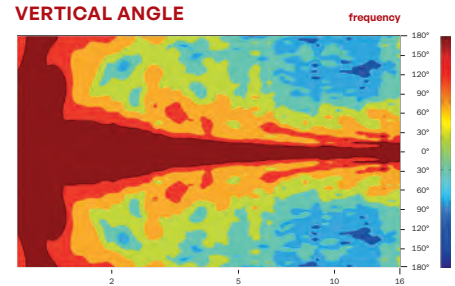
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



¹ Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance.

² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms impedance

⁴ 12 dB/oct. Or higher slope high-pass filter.

⁵ Two hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated

on rated minimum impedance.

⁶ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

⁷ Applied RMS Voltage is set to 2.83 V with FB4648 crossover filter

⁸ 12 dB/oct. Or higher slope high-pass filter.

ME464-354

HORN+HF COAX



**HORN
DRIVER
COMBINATIONS**

180 W
continuous program
power capacity

76 mm (3 in)
51 mm (2 in)
aluminium voice coil

Constant Directivity
horn with
DCX354 HF Coax

110.1 dB
sensitivity

80°x60°
nominal coverage

Neodymium
magnet assembly

Time coherent coaxial ring radiator design (Patents EP3644623B1, US11343608B2, CN111107472A)

SPECIFICATIONS

Nominal Impedance	8 Ω
Nominal Coverage Horizontal	80°
Nominal Coverage Vertical	60°
Cutoff Frequency	0.3 kHz
Design	Constant Directivity
Material	Polyurethane

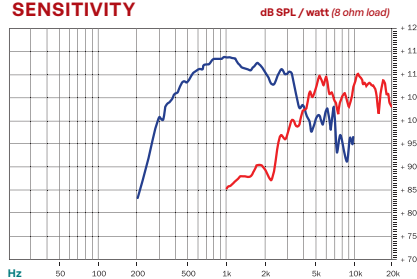
SPECIFICATIONS MF UNIT

Minimum Impedance	7.9 Ω
Power Handling ²	
Nominal (AES) ⁴	90 W
Continuous Program ⁵	180 W
Sensitivity (1W/1m) ⁶	110.1 dB
Frequency Range	0.4 - 6.0 kHz
Voice Coil Diameter	76 mm (2.99 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Flux Density	1.93 T
Recommended Crossover ⁷	0.4 kHz
Magnet Material	Neodymium Ring

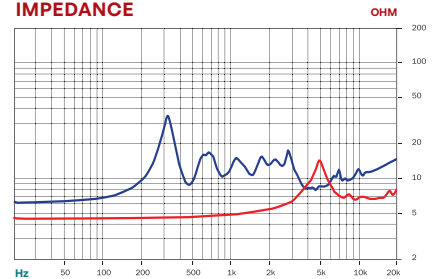
SPECIFICATIONS HF UNIT

Minimum Impedance	6.5 Ω
Power Handling	
Nominal (AES)	50 W
Continuous Program ¹	100 W
Sensitivity (1W/1m) ²	107.0 dB
Frequency Range	5.0 - 20.0 kHz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Flux Density	1.96 T
Recommended Crossover ³	4.5 kHz
Magnet Material	Neodymium Ring

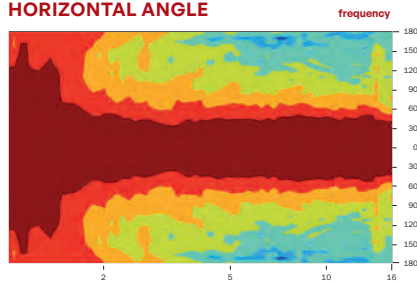
SENSITIVITY



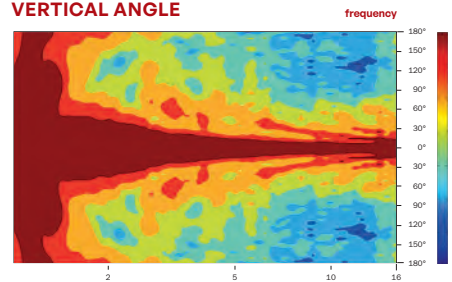
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



MOUNTING AND SHIPPING INFORMATION

Baffle Cutout Dimension	538x470 mm (21.18x18.50 in)
Driver Diameter	130 mm (5.12 in)
Dimensions	575x505x535 mm (22.64x19.88x21.06 in)
Net Weight	7.3 kg (16.09 lb)

¹ Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

² Applied RMS Voltage is set to 2.83 V

for 8 ohms Nominal Impedance.

³ 12 dB/oct. Or higher slope high-pass filter.

⁴ AES Standard.

ME464-464

HORN+HF COAX



220 W
continuous program
power capacity

100 mm (4 in) - MF
65 mm (2.5 in) - HF
aluminium voice coil

Constant Directivity
horn with
DCX464 HF Coax

109.4 dB
sensitivity

80°x60°
nominal coverage

Neodymium
magnet assembly

Time coherent coaxial ring radiator design (Patents EP3644623B1, US11343608B2, CN111107472A)

SPECIFICATIONS

Nominal Impedance	8 Ω
Nominal Coverage Horizontal	80°
Nominal Coverage Vertical	60°
Cutoff Frequency	0.3 kHz
Design	Constant Directivity
Material	Polyurethane

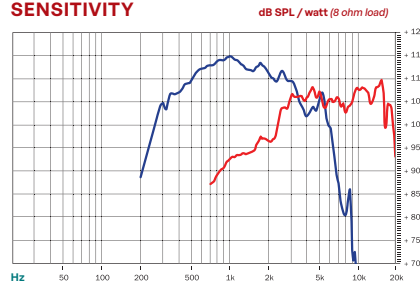
SPECIFICATIONS MF UNIT

Minimum Impedance	6.3 Ω
Power Handling	
Nominal (AES) ¹	100 W
Continuous Program ²	220 W
Sensitivity (1W/1m) ³	109.4 dB
Frequency Range	0.3 - 5.5 kHz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Flux Density	1.9 T
Recommended Crossover ⁴	0.3 kHz
Magnet Material	Neodymium Ring

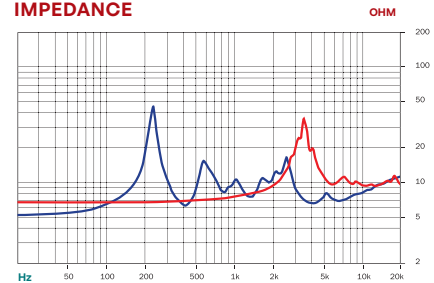
SPECIFICATIONS HF UNIT

Minimum Impedance	9.3 Ω
Power Handling	
Nominal (AES) ¹	80 W
Continuous Program ²	160 W
Sensitivity (1W/1m) ³	105.8 dB
Frequency Range	3.5 - 18.0 kHz
Recommended Crossover ⁴	4.0 kHz
Voice Coil Diameter	65 mm (2.56 in)
Winding Material	Aluminium
Diaphragm Material	HT Polymer
Flux Density	2.15 T
Magnet Material	Neodymium Ring

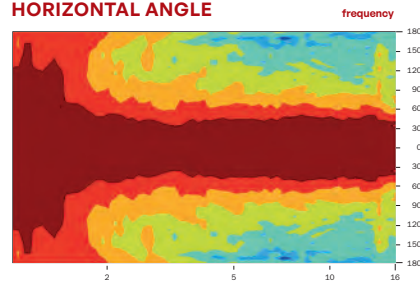
SENSITIVITY



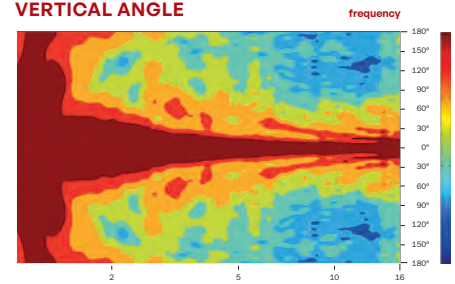
IMPEDANCE



HORIZONTAL ANGLE



VERTICAL ANGLE



MOUNTING AND SHIPPING INFORMATION

Baffle Cutout Dimension	538x470 mm (21.18x18.50 in)
Driver Diameter	152 mm (5.98 in)
Dimensions	575x505x539 mm (22.64x19.88x21.22 in)
Net Weight	8.5 kg (18.74 lb)

¹ AES Standard

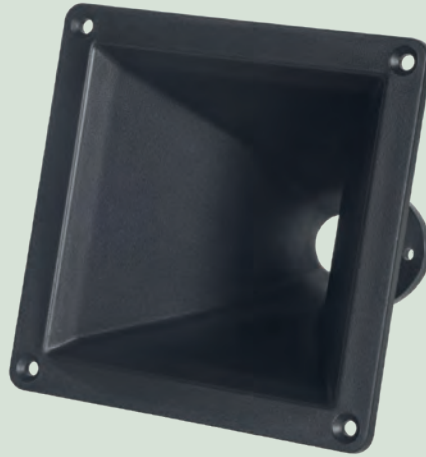
² Power on Continuous Program is defined as 3 dB greater than the Nominal rating.

³ Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.

⁴ 12 dB/oct. Or higher slope high-pass filter.



The best compression driver is nothing without a well matched horn, just like the best subwoofer and its enclosure. In support of the wide range of common loudspeaker types and applications we offer horns from 0.75" to 2" throat size, made of various materials with flexible coverage patterns. From our smallest to our largest compression driver, you will find the correct companion horn on the following pages.



ME7 HORN

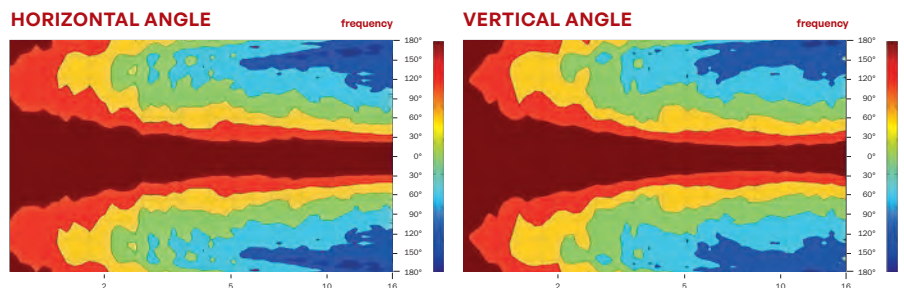
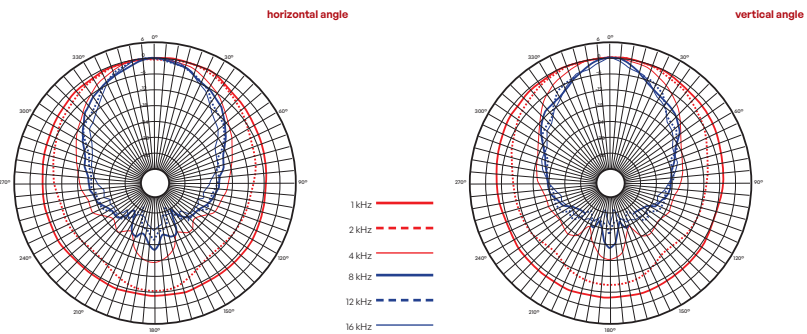
- 3/4" throat entry
- 60°x 40° nominal coverage
- Exponential flare with great directivity control
- Excellent loading down to 2 kHz

SPECIFICATIONS¹

Throat Diameter	19 mm (0.75 in)
Nominal Coverage	
Horizontal	60°
Vertical	40°
Cutoff Frequency	2 kHz
Material	ABS
Dimensions	122x122x102 mm (4.8x4.8x4 in)

MOUNTING AND SHIPPING INFORMATION

2x 4.1 mm (0.16 in) holes 180° on 53 mm (2.1 in) diameter	
Baffle Cutout Dimensions	102.7x102.7 mm (4x4 in)
Air Volume Occupied	0.1 dm ³ (0.0 ft ³)
Net Weight	0.1 kg (0.22 lb)
Shipping Weight	0.22 Kg (0.47 lb)
Shipping Box	120x117x110 mm (4.72x4.61x4.33 in)



¹ Horn mounted on B&C DE7 compression driver.



ME10v2

HORN



- 1" throat entry
- 90°x 60° nominal coverage
- Hyperbolic Cosine Flare
- Excellent loading down to 1.5 kHz

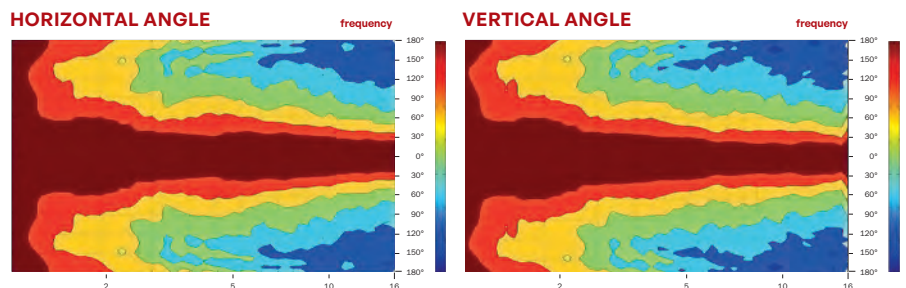
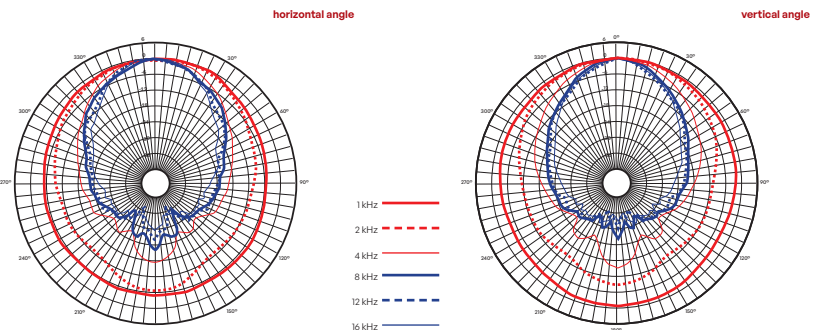
SPECIFICATIONS¹

Throat Diameter	25 mm (1.0 in)
Nominal Coverage	
Horizontal	90°
Vertical	60°
Cutoff Frequency	1.5 kHz
Material	ABS
Design	Hyperbolic Cosine Flare
Dimensions	130.5x130.5x90 mm (5.1x5.1x3.5 in)

MOUNTING AND SHIPPING INFORMATION

4x 5.5 mm (0.22 in) holes 90° on 76 mm (3 in) diameter - 2x 6.3 mm (0.25 in) holes 180° on 57.2 mm (2.26 in) diameter

Baffle Cutout Dimensions	104x104 mm (4.1x4.1 in)
Air Volume Occupied	0.1 dm ³ (0.0 ft ³)
Net Weight	0.15 kg (0.01 lb)
Shipping Weight	0.21 Kg (0.46 lb)
Shipping Box	165x165x100 mm (6.50x6.50x3.94 in)



¹ Horn mounted on B&C DE10 compression driver.



ME20 HORN

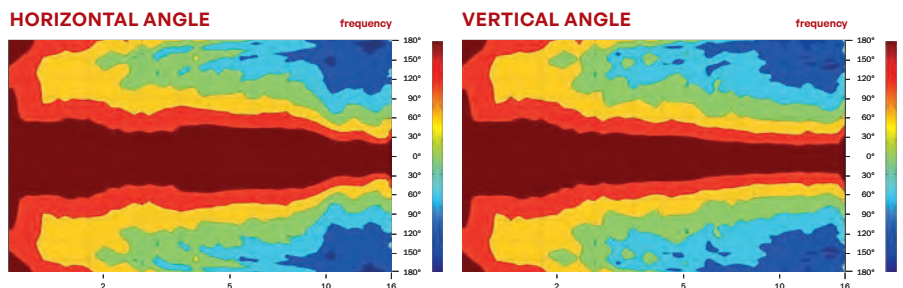
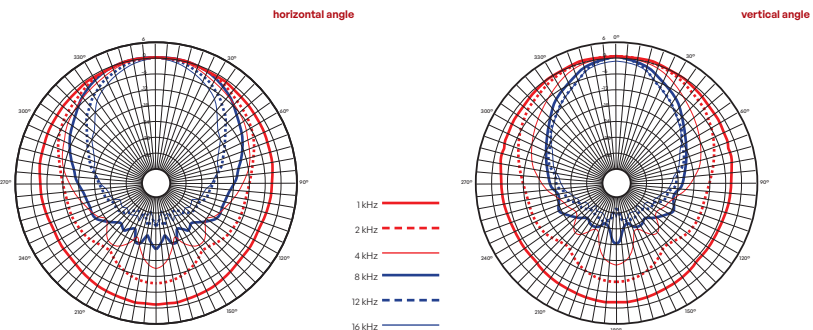
- 1" throat entry
- 90°x 60° nominal coverage
- Exponential flare
- Excellent loading down to 1.5 kHz

SPECIFICATIONS¹

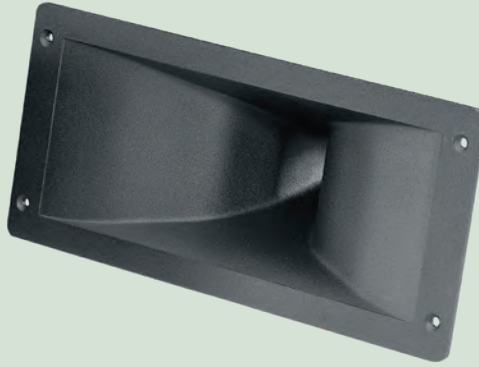
Throat Diameter	25 mm (1 in)
Nominal Coverage	
Horizontal	90°
Vertical	60°
Cutoff Frequency	1.5 kHz
Material	Cast Aluminium
Dimensions	145x145x90 mm (5.7x5.7x3.6 in)

MOUNTING AND SHIPPING INFORMATION

Two 6mm(0.25 in) holes 180° on 76 mm (3 in) diameter	
Baffle Cutout Dimensions	118x113 mm (4.6x4.4 in)
Air Volume Occupied	0.1 dm ³ (0.0 ft ³)
Net Weight (1 unit)	0.45 kg (1 lb)
Shipping Weight (20 units)	12.0 Kg (26.4 lb)
Shipping Box (20 units)	540x350x390 mm (21.2x13.8x15.3 in)



¹ Horn mounted on B&C DE500 compression driver.



ME45 HORN

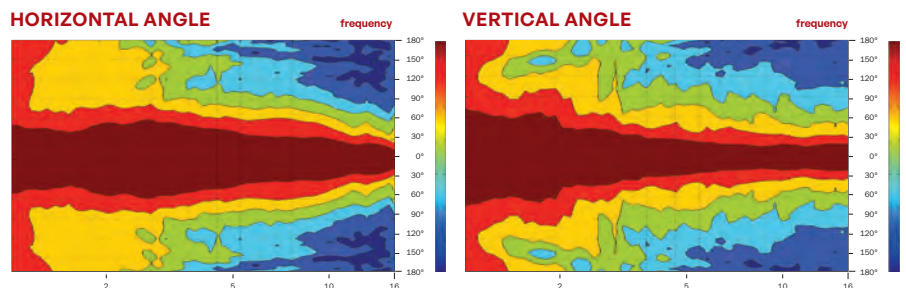
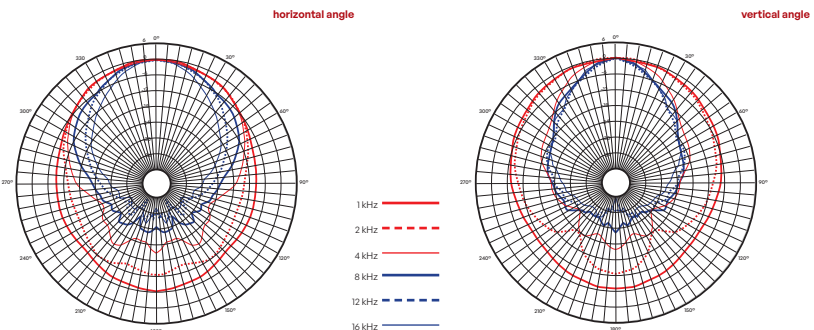
- 1" throat entry
- 90°x 40° nominal coverage
- Exponential flare
- Excellent loading down to 1 kHz

SPECIFICATIONS¹

Throat Diameter	25 mm (1 in)
Nominal Coverage	
Horizontal	90°
Vertical	40°
Cutoff Frequency	1 kHz
Material	Cast Aluminium
Dimensions	310x140x124 mm (12.5x5.5x4.9 in)

MOUNTING AND SHIPPING INFORMATION

Two 6.5 mm (0.25 in) holes 180° on 76 mm (3 in) diameter	
Baffle Cutout Dimensions	260x110 mm (10.2x4.3 in)
Air Volume Occupied	0.26 dm ³ (0.01 ft ³)
Net Weight (1 unit)	0.8 kg (1.8 lb)
Shipping Weight (4 units)	4,9 Kg (10.8 lb)
Shipping Box (4 units)	540x350x185 mm (21.2x13.8x7.3 in)



¹ Horn mounted on B&C DE25 compression driver.



ME90

HORN

1.4"
throat entry

80°x 60°
nominal coverage

Constant
directivity

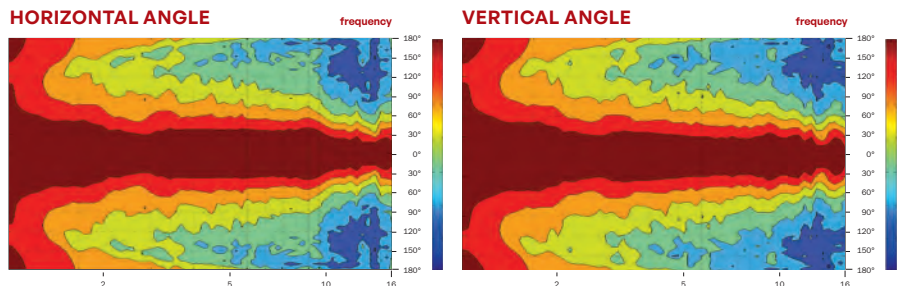
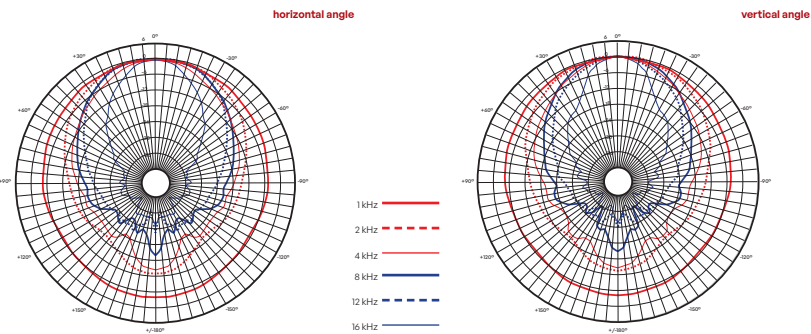
Excellent loading
down to 900 Hz

SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Coverage	
Horizontal	80°
Vertical	60°
Cutoff Frequency	900 Hz
Material	Cast Aluminium
Dimensions	270x270.5x138 mm (10.6x10.6x5.4 in)

MOUNTING AND SHIPPING INFORMATION

Four 6.5 mm (0.25 in) holes 90° on 102 mm (4 in) diameter	
Baffle Cutout Dimensions	225x225 mm (8.8x8.8 in)
Air Volume Occupied	0.42 dm³ (0.01 ft³)
Net Weight	1.4 kg (3.1 lb)
Shipping Weight	2 Kg (4.4 lb)
Shipping Box	295x314x175 mm (11.6x12.4x6.9 in)



¹ Horn mounted on B&C DE900 compression driver.



ME60 HORN

1.4"
throat entry

80°x 60°
nominal coverage

Constant
directivity

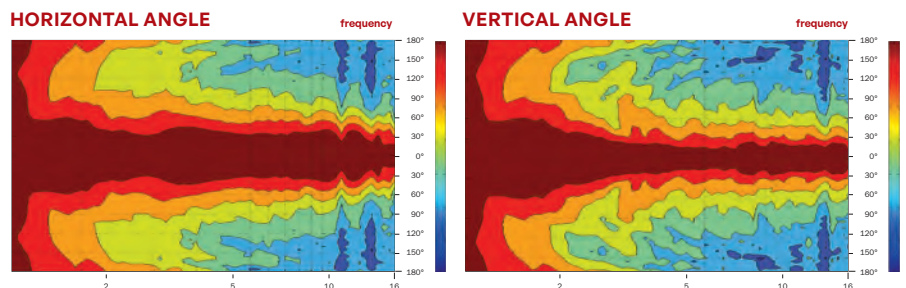
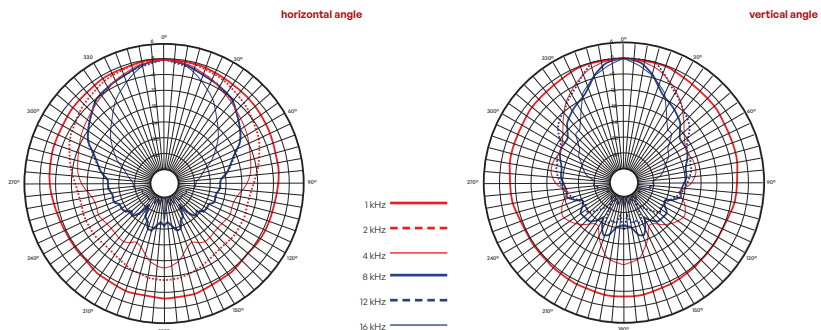
Excellent loading
down to 900 Hz

SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Coverage	
Horizontal	80°
Vertical	60°
Cutoff Frequency	900 Hz
Material	Cast Aluminium
Dimensions	270x270.5x138 mm (10.6x10.6x5.4 in)

MOUNTING AND SHIPPING INFORMATION

Four 6.5 mm (0.25 in) holes 90° on 102 mm (4 in) diameter	
Baffle Cutout Dimensions	225x225 mm (8.8x8.8 in)
Air Volume Occupied	0.45 dm ³ (0.02 ft ³)
Net Weight	1.4 kg (3.1 lb)
Shipping Weight	2 Kg (4.4 lb)
Shipping Box	295x314x175 mm (11.6x12.4x6.9 in)



¹ Horn mounted on B&C DE900 compression driver.



ME464

HORN

1.4"
throat entry

80°x 60°
nominal coverage*

Constant
Directivity horn

Excellent loading
down to 300 Hz

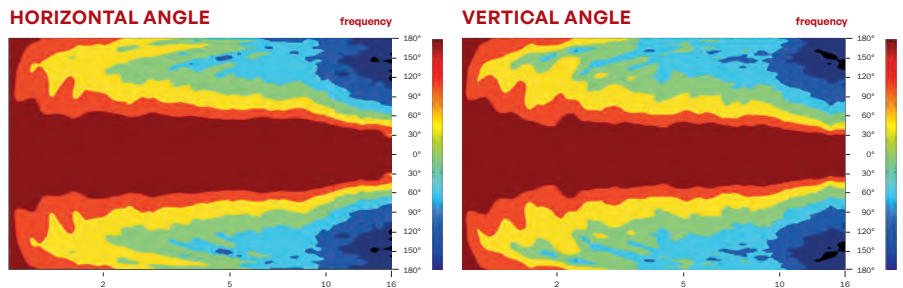
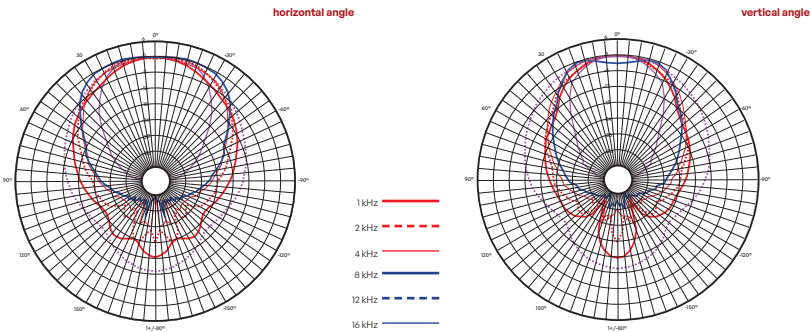
*revised 20/10/20

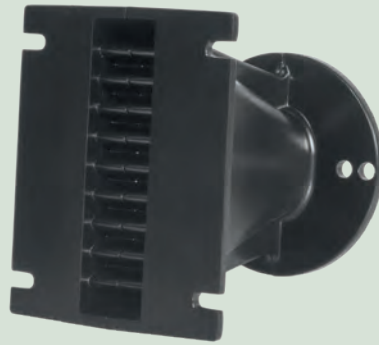
SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Coverage	
Horizontal	80°
Vertical	60°
Cutoff Frequency	0.3 kHz
Material	Polyurethane
Dimensions	575x505x460 mm (22.64x19.88x18.11 in)

MOUNTING AND SHIPPING INFORMATION

4x 6.5 mm (0.255 in) holes 90° on 102 mm (4 in) diameter	
Baffle Cutout Dimensions	538x470 mm (21.18x18.50 in)
Air Volume Occupied	35.5 dm³ (1.25 ft³)
Net Weight	4.8 kg (10.58 lb)
Shipping Weight	7.71 Kg (17.0 lb)
Shipping Box	610x533x508 mm (24.02x20.98x20.0 in)





ME102

LINE ARRAY

OPTIMIZED WAVEGUIDE

1" throat entry

140° max horizontal coverage

Line Array optimized Waveguide

Vertical coverage depends on configuration

Very good loading down to 1 kHz

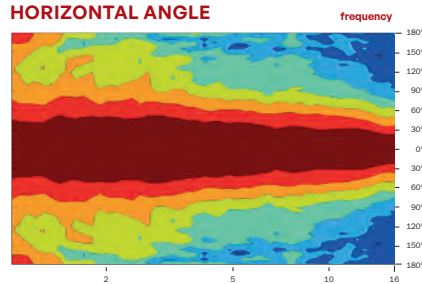
SPECIFICATIONS¹

Throat Diameter	25 mm (1.0 in)
Nominal Coverage	
Horizontal	140°
Cutoff Frequency	1.0 kHz
Material	Cast Aluminium
Dimensions	110.6x87x111.6 mm (4.35x3.43x4.39 in)

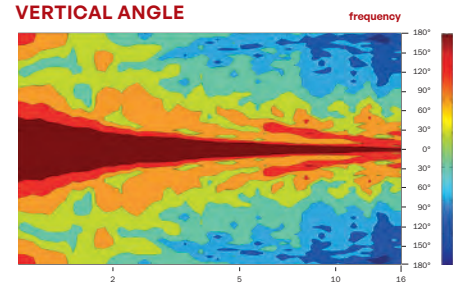
MOUNTING AND SHIPPING INFORMATION

Two 6 mm (0.25 in) holes on 76 mm (3 in) diameter - Two 6 mm (0.25 in) holes on 57.2 mm (2.25 in) diameter	
Baffle Cutout Dimensions	102.4x25.4 mm (4.03x1.00 in)
Net Weight	0.5 kg (1.1 lb)
Shipping Weight	12.1 kg (26.68 lb)
Shipping Box	165x165x100 mm (6.5x6.5x3.95 in)

HORIZONTAL ANGLE



VERTICAL ANGLE



¹ Waveguide mounted on B&C DE400TN compression driver.



ME148

LINE ARRAY

OPTIMIZED WAVEGUIDE

1.4" throat entry

120° max horizontal coverage

Line Array optimized Waveguide

Very good loading down to 500 Hz

Vertical coverage depends on configuration

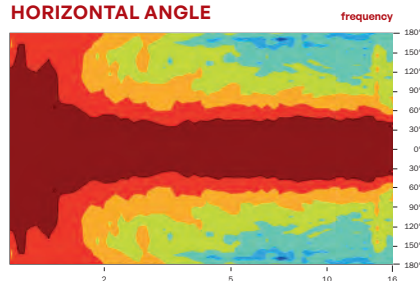
SPECIFICATIONS¹

Throat Diameter	36 mm (1 in)
Nominal Coverage	
Horizontal	120°
Cutoff Frequency	0.5 kHz
Material	Polycarbonate
Dimensions	240x80x174.5 mm (9.45x3.15x6.87 in)

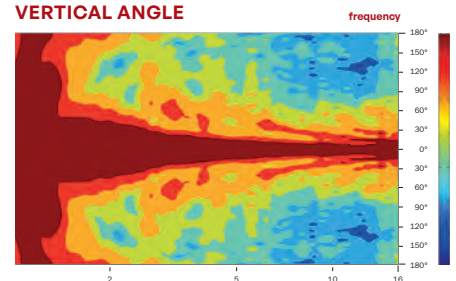
MOUNTING AND SHIPPING INFORMATION

Two 6.5 mm (0.25 in) holes 180° on 76 mm (3 in) diameter	
Baffle Cutout Dimensions	260x110 mm (10.2x4.3 in)
Net Weight	0.8 kg (1.8 lb)
Shipping Weight	1 kg (2.2 lb)
Shipping Box	255x255x150 mm (10x10x5.9 in)

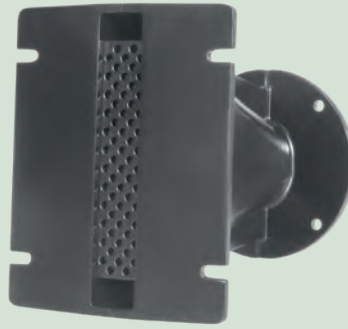
HORIZONTAL ANGLE



VERTICAL ANGLE



¹ Horn mounted on B&C DCX464 compression driver with B&C FB4648 passive crossover network.



ME242

LINE ARRAY

OPTIMIZED WAVEGUIDE

- **1.4"** throat entry
- **120°** max horizontal coverage
- Line Array optimized Waveguide
- Very good loading down to 800 Hz
- Vertical coverage depends on configuration

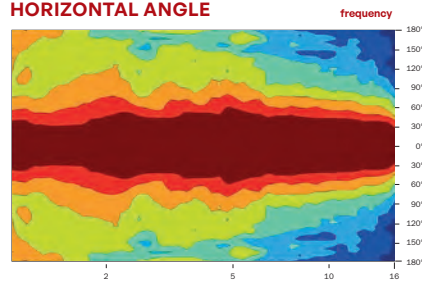
SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Coverage	
Horizontal	120°
Cutoff Frequency	0.8 kHz
Material	Cast Aluminium
Dimensions	163x130x180 mm (6.42x5.12x7.09 in)

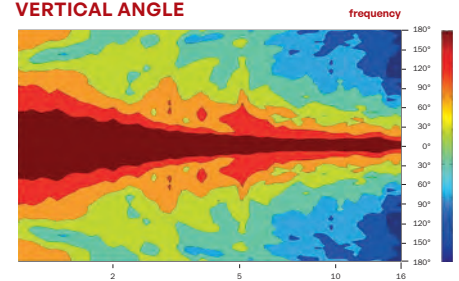
MOUNTING AND SHIPPING INFORMATION

Four 6.5 mm holes at 90° on 102 mm (4 in) diameter	
Baffle Cutout Dimensions	153x25.4 mm (6.00x1.00 in)
Net Weight	1.0 kg (2.2 lb)
Shipping Weight	1.1 kg (2.43 lb)
Shipping Box	190x135x165 mm (7.48x5.31x6.50 in)

HORIZONTAL ANGLE



VERTICAL ANGLE



¹ Waveguide mounted on B&C DE920TN compression driver.

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