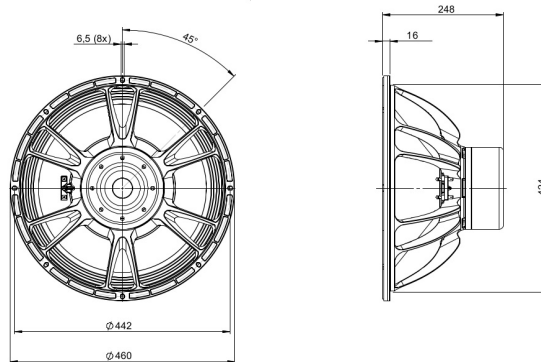


18DS115

8Ω

LF Drivers - 18.0 Inches



- 3400 W continuous program power capacity
- 116 mm (4.5 in) split winding four layer aluminum voice coil
- 30 - 500 Hz response
- 98 dB sensitivity
- 60 mm peak-to-peak excursion before damage
- 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



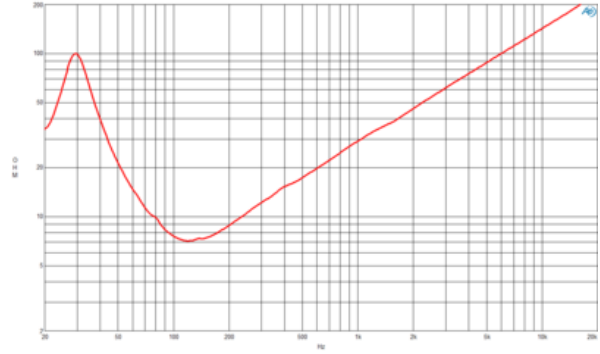
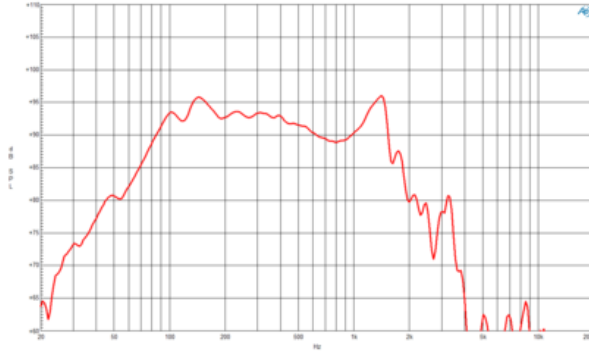
DESCRIPTION

** Preliminary Data **

This next evolution subwoofer uses a new, longer, four layer aluminum voice coil. The result is more energy in the gap, higher sensitivity, lower distortion and better overall performance. The 18DS115 features a 40mm long, 4.5 inch diameter (116mm) Copper Clad Aluminum Wire voice coil. With a 1700watt AES power rating, 99db sensitivity, and over 14.0mm of Xvar, this high energy subwoofer is a significant step forward from similar models in the B&C range.

18DS115

LF Drivers- 18.0 Inches



SPECIFICATIONS

| | |
|--|-------------------|
| Nominal Diameter | 460 mm (18.0 in) |
| Nominal Impedance | 8 Ω |
| Minimum Impedance | 7.0 Ω |
| Nominal Power Handling ¹ | 1700 W |
| Continuous Power Handling ² | 3400 W |
| Sensitivity ³ | 98.0 dB |
| Frequency Range | 30 - 500 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 |

DESIGN

| | |
|-----------------------|--|
| Surround Shape | Triple Roll |
| Cone Shape | Radial |
| Magnet Material | Neodymium Inside Slug |
| Spider | Double Silicone |
| Pole Design | T-Pole |
| Woofer Cone Treatment | TWP Waterproof Both Sides |
| Recommended Enclosure | 80.0 dm ³ (2.83 ft ³) |
| Recommended Tuning | 40 Hz |

PARAMETERS⁴

| | |
|---------------------|--|
| Resonance Frequency | 30 Hz |
| Re | 5.0 Ω |
| Qes | 0.21 |
| Qms | 4.3 |
| Qts | 0.2 |
| Vas | 168.0 dm ³ (5.93 ft ³) |
| Sd | 1210.0 cm ² (187.55 in ²) |
| η_0 | 2.2 % |
| Xmax | 16.5 mm |
| Xvar | 14.0 mm |
| Mms | 330.0 g |
| Bl | 39.0 Txm |
| Le | 3.85 mH |
| EBP | 142 Hz |

MOUNTING AND SHIPPING INFO

| | |
|-------------------------------|--|
| Overall Diameter | 460 mm (18.11 in) |
| Bolt Circle Diameter | 440 mm (17.32 in) |
| Baffle Cutout Diameter | 422.0 mm (16.61 in) |
| Depth | 248 mm (9.76 in) |
| Flange and Gasket Thickness | 16 mm (0.63 in) |
| Air Volume Occupied by Driver | 10.0 dm ³ (0.35 ft ³) |
| Net Weight | 12.0 kg (26.46 lb) |
| Shipping Units | 1 |
| Shipping Weight | 13.6 kg (29.98 lb) |
| Shipping Box | 500x495x275 mm (19.69x19.49x10.83 in) |

SERVICE KIT

RCK18DS1158

- 2 hours test made with continuous pink noise signal (6 dB crest factor) within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
- Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
- Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
- Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.