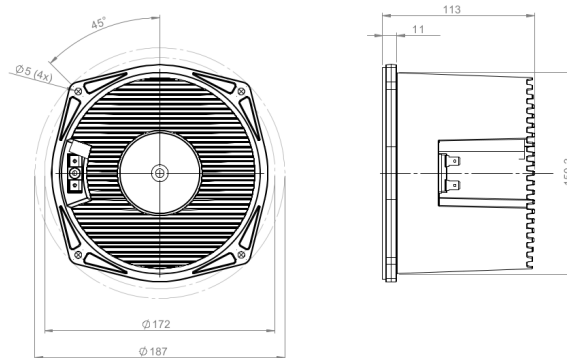


# 6NSM51

8Ω

LF Drivers - 6.5 Inches



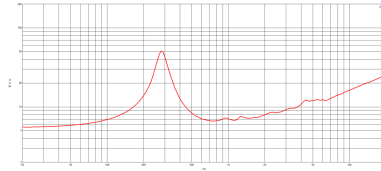
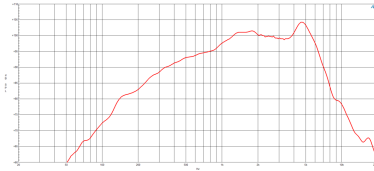
- 500 W continuous program power capacity
- 51 mm (2 in) aluminium voice coil
- 300 - 6000 Hz response
- 100 dB sensitivity
- Ideal for Direct Radiation and Horn Loaded Midrange application
- Aluminium demodulating ring for Extremely Low Distortion



For simplified cabinet assembly and efficient thermal transfer to the air, our NSM series of sealed back midranges feature a cast aluminum sealed chassis, high strength neodymium motor, and large internal volume for good low frequency performance. Large voice coils provide power handling, while careful selection of suspension and cone components results in exceptional sensitivity. These dedicated narrow-bandwidth midranges offer the lowest distortion at given output of any midrange available.

# 6NSM51

LF Drivers- 6.5 Inches



## SPECIFICATIONS

Nominal Diameter	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Nominal Power Handling <sup>1</sup>	250 W
Continuous power handling <sup>2</sup>	500 W
Sensitivity (1W/1m) <sup>3</sup>	100.0 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

## DESIGN

Surround Shape	Triple Roll
Cone Shape	Radial
Magnet Material	Neodymium Ring
Spider	Single
Pole Design	T-Pole
Woofer Cone Treatment	WP Waterproof Front Side

## PARAMETERS<sup>4</sup>

Resonance Frequency	280 Hz
Re	5.4 Ω
Qes	0.68
Qms	5.4
Qts	0.6
Vas	0.7 dm <sup>3</sup> (0.02 ft <sup>3</sup> )
Sd	143.0 cm <sup>2</sup> (22.17 in <sup>2</sup> )
η <sub>o</sub>	2.2 %
Xmax	± 2.8 mm
Xvar	± 3.0 mm
Mms	13.5 g
Bl	13.9 Txm
Le	0.15 mH
EBP	411 Hz

## MOUNTING AND SHIPPING INFO

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 <sup>3</sup> (0.07 ft <sup>3</sup> )
Net Weight	2.7 kg (5.95 lb)
Shipping Units	1
Shipping Weight	2.95 kg (6.5 lb)
Shipping Box	221x214x130 mm (8.70x8.43x5.12 in)

## SERVICE KIT

Recone kit	RCK06NSM518
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1. 2 hours 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.