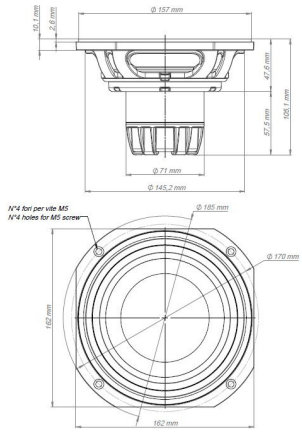
6NTLW2000 16Ω

LF drivers - 6.5 Inches



- Dual gap ultra linear motor
- 320W AES power handling
- 51 mm (2 in) voice coil
- Extremely balanced BL shape for maximum SPL
- Optimized thermal conductivity
- Maximum linearity and inductance symmetry for extended mid-band clarity
- Ideal for super light line array applications

The 6NTLW2000 represents the latest 18sound technology for high quality, low distortion applications. The smallest Dual gap motor structure of the family uses the same concept to maximize its benefits in terms of thermal dissipation and Bl symmetry to a wide frequency band, making the 6NTLW2000 the perfect component both as a woofer and a midbass.
Dual gap motors linearize inductance and the perfect balance we reached between the motor and the ultra linear suspension allows both very high excursion and extreme precision in the mid band with the lowest intermodulation distortion in the professional market.
This features, together with its extreme low weight make the 6NTLW2000 the perfect component for highest quality line arrays and multi-way systems.

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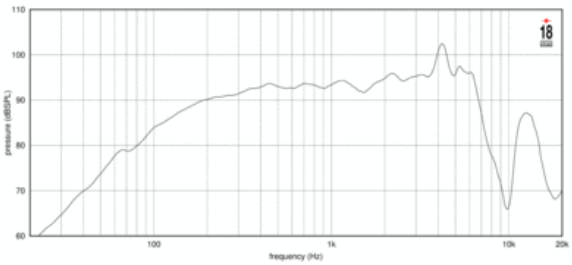

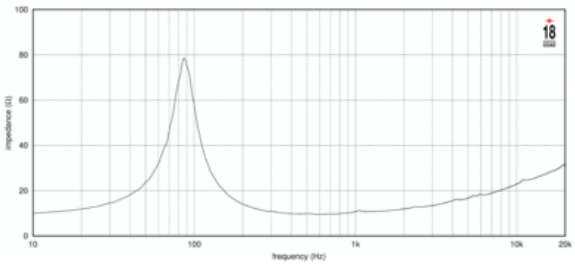

SPECIFICATIONS

Nominal Diameter	152 mm (in)
Nominal Impedance	16 Ω
Minimum Impedance	9.7 Ω
Nominal Power Handling[1]	320 W
Continuous Power Handling[2]	600 W
Sensitivity[3]	93.0 dB
Frequency Range	100 - 7300 Hz
Voice Coil Diameter	51 mm (2.01 in)
Winding Material	aluminum
Winding Depth	14.0 mm (0.55 in)
Magnetic Gap Depth	8.5 mm (0.33 in)

DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	5.0 dm^3 (0.18 ft^3)
Recommended Tuning	85 Hz

PARAMETERS[4]

Resonance Frequency	86 Hz
Re	9.0 Ω
Qes	0.43
Qms	3.38
Qts	0.38
Vas	4.8 dm^3 (0.17 ft^3)
Sd	133.0 cm^2 (20.62 in^2)
η_0	0.7 %
Xmax	4.9 mm
Xvar	7.5 mm
Mms	17.5 g
Bl	14.1 Txm
Le	0.34 mH
EBP	200 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	162 mm (6.38 in)
Bolt Circle Diameter	170 mm (6.69 in)
Baffle Cutout Diameter	148.0 mm (5.83 in)
Depth	108 mm (4.25 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	1.2 kg (2.65 lb)
Shipping Weight	1.5 kg (3.31 lb)
Shipping Box	185x170x85 mm (7.28x6.69x3.35 in)

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.