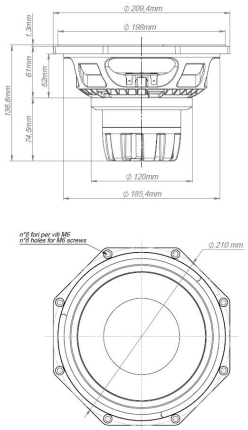
8NTLW2500 16Ω

LF drivers - 8.0 Inches



- 94 dB SPL 1W / 1m average sensitivity
- 64 mm (2.5 in) Dual voice coil
- 500 W AES power handling
- Extremely balanced BL shape for maximum SPL
- Optimized thermal conductivity
- Maximum linearity and inductance symmetry for extended mid-band clarity
- Ideal for two-ways and line array applications

The 8NTLW2500 represents the latest 18sound technology for high quality, low distortion applications. The Dual Gap technology comes directly from the Tetracoil motor structure and uses the same concept to maximize its benefits in terms of thermal dissipation and Bl symmetry to a wider frequency band, making the 8NTLW2500 the perfect component both as a woofer and a midbass, in a perfect power/weight ratio.

The brand new 2.5" Neo Dual gap motor linearizes inductance and minimizes heating and power compression thanks to the high coil surface that makes heat exchange twice as efficient than with standard single coil drivers.
The perfect balance we reached between the motor and the ultra linear M-roll 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 (less than 3 Kg) make the 8NTLW2500 the perfect component for highest quality line arrays and two/three way systems, thanks also to its 1000 watts power handling capabilities which put it above the performances of 3" voice coils traditional speakers.

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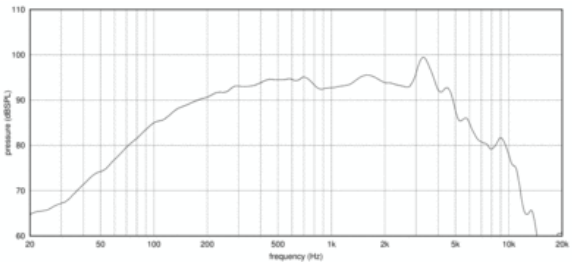

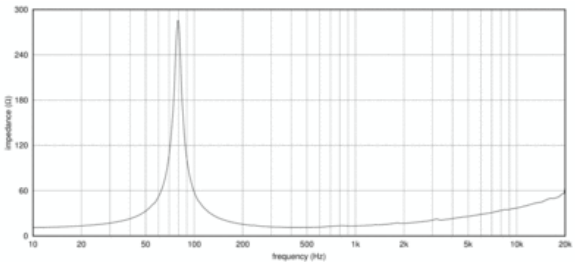

SPECIFICATIONS

Nominal Impedance	16 Ω
Minimum Impedance	11.0 Ω
Nominal Power Handling[1]	500 W
Continuous Power Handling[2]	1000 W
Sensitivity[3]	94.0 dB
Frequency Range	80 - 5000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	copper
Winding Depth	19.7 mm (0.78 in)
Magnetic Gap Depth	9.0 mm (0.35 in)

DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Neo
Pole Design	Dual Gap
Woofer Cone Treatment	Reinforced, water repellent, treated paper
Recommended Enclosure	20.0 dm^3 (0.71 ft^3)
Recommended Tuning	85 Hz

PARAMETERS[4]

Resonance Frequency	80 Hz
Re	10.3 Ω
Qes	0.39
Qms	9.9
Qts	0.38
Vas	7.2 dm^3 (0.25 ft^3)
Sd	227.0 cm^2 (35.19 in^2)
η_0	0.9 %
Xmax	7.6 mm
Xvar	8.0 mm
Mms	40.0 g
Bl	22.9 Txm
Le	0.68 mH
EBP	205 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	225 mm (8.88 in)
Bolt Circle Diameter	210 mm (8.27 in)
Baffle Cutout Diameter	186.0 mm (7.32 in)
Depth	137 mm (5.39 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Net Weight	3.0 kg (6.61 lb)
Shipping Weight	3.3 kg (7.28 lb)

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.

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