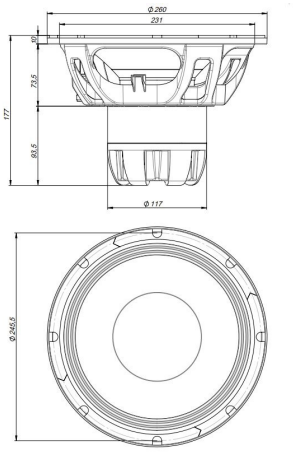
10NTLW3500 16Ω

LF drivers - 10.0 Inches



- 94 dB SPL 1W / 1m average sensitivity
- 88 mm (3 in) ISV voice coil
- 800 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
- 2 X Single demodulating ring

The 10NTLW3500 represents the last add on to the dual gap family, which is the state of the art of 18sound components and technology for high power, finest quality applications.
The dual gap technology comes directly from the Tetracoil motor structure and applies its benefits to a wider frequency band, making the 10NTLW3500 capable of working perfectly both as a woofer and as a midbass with unmatched power and the lowest distortion/pressure ratio in this dimension.
Optimized thermal conductivity allows great power handling (up to 1600 watts), the extremely balanced Bl shape together with the ultra linear suspension, maximizes Spl keeping the lowest intermodulation distortion in the market, giving the 10NTLW3500 the amazing capability of reproducing a deep and full low end, together with perfect clarity mids. Both magnetic gaps are also equipped with two separated single demodulating rings.
This unique features, makes the 10NTLW3500 the perfect component for highest quality line arrays and two way systems without the need of a midband dedicated component.

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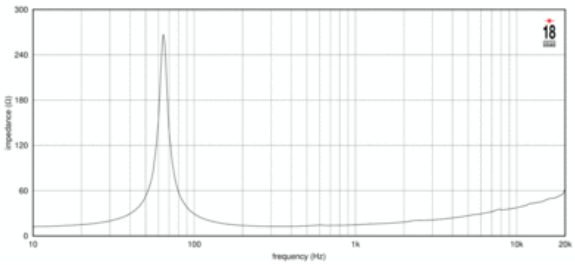

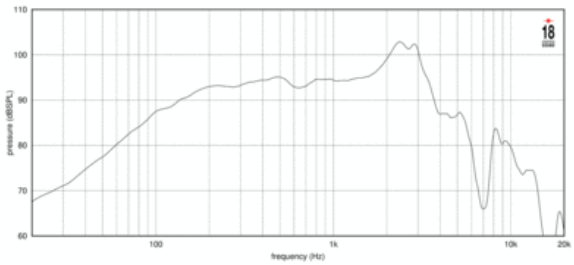

SPECIFICATIONS

Nominal Impedance	16 Ω
Minimum Impedance	12.6 Ω
Nominal Power Handling[1]	800 W
Continuous Power Handling[2]	1600 W
Sensitivity[3]	94.0 dB
Frequency Range	60 - 3500 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Depth	19.0 mm (0.75 in)
Magnetic Gap Depth	12.5 mm (0.49 in)

DESIGN

Surround Shape	Triple roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Reinforced, water repellent, treated paper
Recommended Enclosure	20.0 dm^3 (0.71 ft^3)
Recommended Tuning	58 Hz

PARAMETERS[4]

Resonance Frequency	64 Hz
Re	11.4 Ω
Qes	0.46
Qms	10.8
Qts	0.45
Vas	18.1 dm^3 (0.64 ft^3)
Sd	346.0 cm^2 (53.63 in^2)
η_0	1.0 %
Xmax	6.4 mm
Xvar	8.5 mm
Mms	58.0 g
Bl	23.9 Txm
Le	0.69 mH
EBP	139 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	260 mm (10.24 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	233.0 mm (9.17 in)
Depth	177 mm (6.97 in)
Flange and Gasket Thickness	10 mm (0.39 in)
Net Weight	4.2 kg (9.26 lb)
Shipping Weight	4.7 kg (10.36 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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