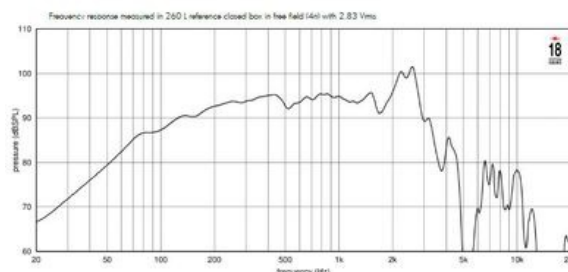
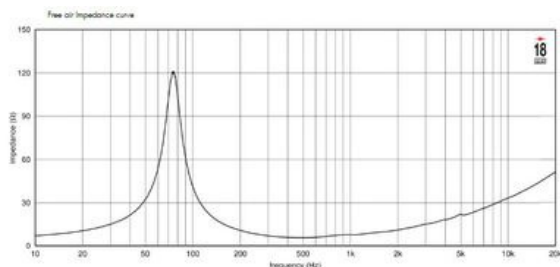




- 97 dB SPL 1W/ 1m average sensitivity
- 88 mm (3 in) ISV voice coil
- 900 WAES power handling
- Extremely balanced BL shape for maximum SPL
- Optimized thermal conductivity
- Maximum linearity and inductance symmetry for extended mid-band clarity
- Ideal for two-ways and line array applications
- 2 X Single demodulating rings

The 12NTLW3500 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 12NTLW3500 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 12NTLW3500 the perfect component for highest quality line arrays and two way systems, thanks also to its 1800 watts power handling capabilities.



### SPECIFICATIONS

Nominal Diameter	300 mm (12.0 in)
Nominal Impedance	4 Ω
Minimum Impedance	3.6 Ω
Nominal Power Handling <sup>1</sup>	900 W
Continuous Power Handling <sup>2</sup>	1800 W
Sensitivity <sup>3</sup>	97.0 dB
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	88 mm (3.5 in)
Winding Material	aluminum
Winding Depth	22.0 mm (0.87 in)
Magnetic Gap Depth	13.0 mm (0.51 in)

### DESIGN

Surround Shape	Triple roll
Cone Shape	Straight
Magnet Material	Neo
Recommended Enclosure	50.0 dm <sup>3</sup> (1.77 ft <sup>3</sup> )
Recommended Tuning	58 Hz

### PARAMETERS<sup>4</sup>

Resonance Frequency	54 Hz
Re	3.1 Ω
Qes	0.34
Qms	13.1
Qts	0.33
Vas	41.0 dm <sup>3</sup> (1.45 ft <sup>3</sup> )
Sd	531.0 cm <sup>2</sup> (82.31 in <sup>2</sup> )
η <sub>o</sub>	1.8 %
X <sub>max</sub>	8.3 mm
M <sub>ms</sub>	85.0 g
Bl	16.3 Txm
Le	0.29 mH
EBP	158 Hz

### MOUNTING AND SHIPPING INFO

Overall Diameter	310 mm (12.2 in)
Bolt Circle Diameter	295 mm (11.61 in)
Baffle Cutout Diameter	282.0 mm (11.1 in)
Depth	193 mm (7.6 in)
Flange and Gasket Thickness	13 mm (0.53 in)
Net Weight	4.7 kg (10.36 lb)
Shipping Weight	5.5 kg (12.13 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.