

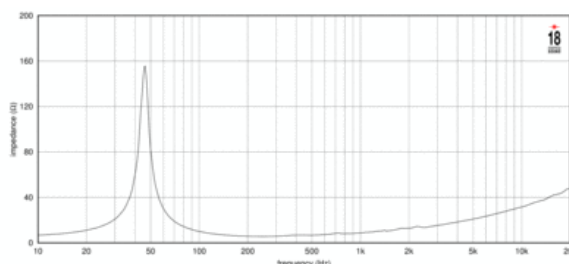
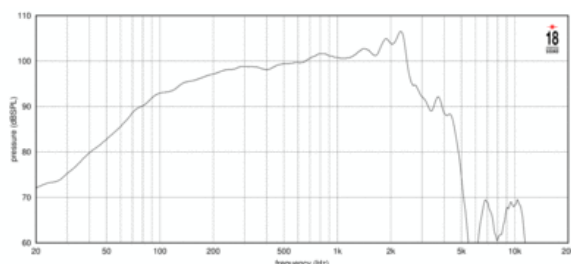
- 100.5 dB SPL 1W/ 1m average sensitivity
- 64 mm (2.5 in) Dual voice coil
- 600 WAES power handling
- Extremely balanced BL shape for maximum SPL
- Optimized thermal conductivity
- Maximum linearity and inductance symmetry for extended mid-band clarity
- Ideal for two-ways and line array applications

The dual gap family is now complete with the NTLW2500 (2.5" voice coil) speaker platform.

The 15NTLW2500 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 15NTLW2500 the perfect component both as a woofer and a midbass, in a perfect power/weight ratio.

The brand new 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. A copper flat wire voice coil with extra turns compared to the smaller diameters of the 2500 family was chosen to increase BL and maximize sensitivity and performances. 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 (only 3.8 Kg), makes the 15NTLW2500 the perfect component for highest quality line arrays and two/three way systems, thanks also to its 1200 watts power handling capabilities which put the NTLW2500 above the average performances of 3" voice coils traditional speakers.



SPECIFICATIONS

Nominal Impedance	8 Ω
Minimum Impedance	5.6 Ω
Nominal Power Handling ¹	600 W
Continuous Power Handling ²	1200 W
Sensitivity ³	100.5 dB
Frequency Range	45 - 3200 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	copper
Winding Depth	20.5 mm (0.81 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
Woofers Cone Treatment	Reinforced, water repellent, treated paper
Recommended Enclosure	70.0 dm ³ (2.47 ft ³)
Recommended Tuning	55 Hz

PARAMETERS⁴

Resonance Frequency	45 Hz
Re	5.1 Ω
Qes	0.31
Qms	8.9
Qts	0.3
Vas	143.0 dm ³ (5.05 ft ³)
Sd	881.4 cm ² (136.62 in ²)
η _o	2.4 %
X _{max}	8.0 mm
X _{var}	8.5 mm
M _{ms}	95.0 g
Bl	21.2 Txm
Le	0.65 mH
EBP	145 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	371 mm (14.61 in)
Baffle Cutout Diameter	355.0 mm (13.98 in)
Depth	210 mm (8.27 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Net Weight	3.8 kg (8.38 lb)
Shipping Weight	4.5 kg (9.92 lb)
Shipping Box	405 x 405 x 260 mm (15.94x15.94x10.24 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.