



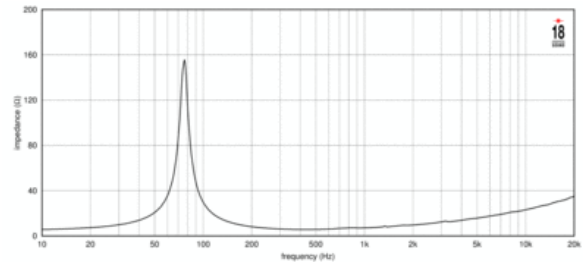
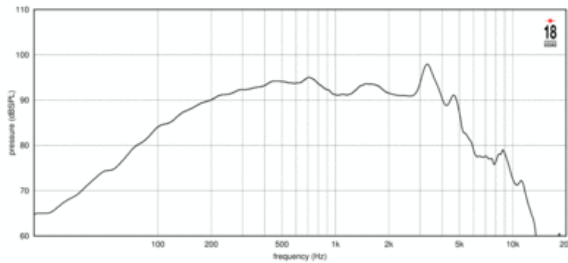
- 94,5 dB SPL 1W / 1m average sensitivity
- 64 mm (2.5 in) Dual voice coil
- 500 WAES power handling
- Extremely balanced BL shape for maximum SPL
- Optimized thermal conductivity
- Maximum linearity and inductance symmetry for extended mid-band clarity
- Ideal for two-ways and line array applications

The 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.



### SPECIFICATIONS

|                                        |                   |
|----------------------------------------|-------------------|
| Nominal Impedance                      | 8 Ω               |
| Minimum Impedance                      | 5.7 Ω             |
| Nominal Power Handling <sup>1</sup>    | 500 W             |
| Continuous Power Handling <sup>2</sup> | 1000 W            |
| Sensitivity <sup>3</sup>               | 94.5 dB           |
| Frequency Range                        | 80 - 5000 Hz      |
| Voice Coil Diameter                    | 64 mm (2.5 in)    |
| 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 | Weather protected                            |
| Recommended Enclosure | 20.0 dm <sup>3</sup> (0.71 ft <sup>3</sup> ) |
| Recommended Tuning    | 82 Hz                                        |

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

|                     |                                                |
|---------------------|------------------------------------------------|
| Resonance Frequency | 76 Hz                                          |
| Re                  | 5.1 Ω                                          |
| Qes                 | 0.31                                           |
| Qms                 | 8.9                                            |
| Qts                 | 0.3                                            |
| Vas                 | 7.6 dm <sup>3</sup> (0.27 ft <sup>3</sup> )    |
| Sd                  | 227.0 cm <sup>2</sup> (35.19 in <sup>2</sup> ) |
| η <sub>o</sub>      | 1.0 %                                          |
| X <sub>max</sub>    | 7.6 mm                                         |
| X <sub>var</sub>    | 8.0 mm                                         |
| M <sub>ms</sub>     | 42.0 g                                         |
| Bl                  | 18.1 T·xm                                      |
| Le                  | 0.45 mH                                        |
| EBP                 | 245 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.