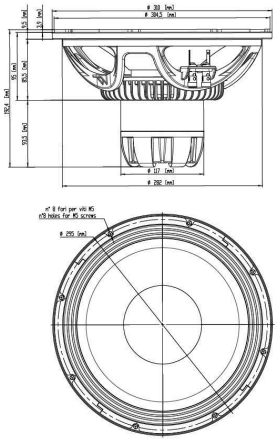
# 12NTLS3500 4Ω

## LF drivers - 12.0 Inches



- 94.5 dB SPL 1W / 1m average sensitivity
- 88 mm (3.5 in) voice coil
- 750 W AES power handling
- Extremely balanced BL shape
- Optimized thermal conductivity
- Maximum linearity and inductance symmetry
- Ideal for compact subwoofers
- Very light Neo Motor

The 12NTLS3500 represents the latest 18sound technology for high quality, low distortion applications. The Dual hgap motor structure maximize its benefits in therms of thermal dissipation and Bl symmetry, making the 12NTLS3500 the perfect component for high quality, low tuning, compact subwoofers.

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 12NTLS3500 the perfect component for highest quality compact subwoofers, thanks also to its 1800 watts power handling capabilities.

**Eighteen Sound Srl**
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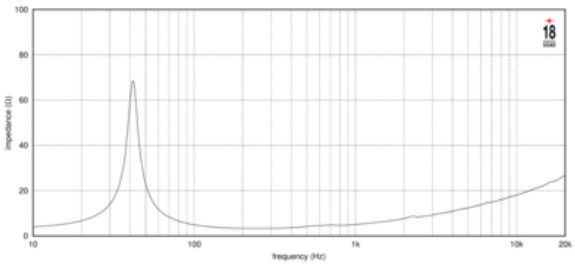

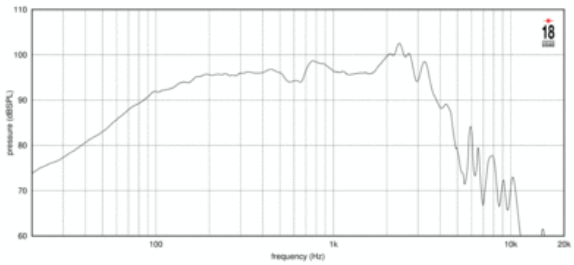

### SPECIFICATIONS

| | |
|---|---|
| Nominal Impedance | 4 Ω |
| Minimum Impedance | 3.3 Ω |
| Nominal Power Handling[1] | 750 W |
| Continuous Power Handling[2] | 1500 W |
| Sensitivity[3] | 94.5 dB |
| Frequency Range | 40 - 4000 Hz |
| Voice Coil Diameter | 88 mm (3.46 in) |
| Winding Material | aluminum |
| Winding Depth | 22.0 mm (0.87 in) |
| Magnetic Gap Depth | 12.5 mm (0.49 in) |

### DESIGN

| | |
|---|---|
| Surround Shape | Single roll - Rubber |
| Cone Shape | Curvilinear |
| Magnet Material | Neo |
| Woofer Cone Treatment | Weather protected |
| Recommended Enclosure | 40.0 $dm^3$ (1.41 $ft^3$) |
| Recommended Tuning | 45 Hz |

### PARAMETERS[4]

| | |
|---|---|
| Resonance Frequency | 41 Hz |
| Re | 3.1 Ω |
| Qes | 0.36 |
| Qms | 7.8 |
| Qts | 0.34 |
| Vas | 63.0 $dm^3$ (2.22 $ft^3$) |
| Sd | 531.0 $cm^2$ (82.31 $in^2$) |
| $\eta_0$ | 1.2 % |
| Xmax | 7.9 mm |
| Xvar | 8.5 mm |
| Mms | 92.0 g |
| Bl | 14.5 Txm |
| Le | 0.39 mH |
| EBP | 113 Hz |

### MOUNTING AND SHIPPING INFO

| | |
|---|---|
| Overall Diameter | 310 mm (12.2 in) |
| Bolt Circle Diameter | 295 mm (11.61 in) |
| Baffle Cutout Diameter | 283.0 mm (11.14 in) |
| Depth | 195 mm (7.68 in) |
| Flange and Gasket Thickness | 9 mm (0.37 in) |
| Net Weight | 4.7 kg (10.36 lb) |
| Shipping Weight | 5.6 kg (12.35 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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