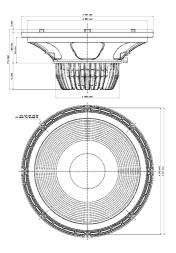




LF drivers - 15.0 Inches





- 96 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
- 1000 W AES power handling
- Carbon fiber reinforced cone
- Double Silicon Spider (DSS) for improved excursion control and linearity
- Double Demodulating Rings (DDR) for lower distortion
- Rubber surround suspension system
- External neodymium magnet assembly
- Improved dissipation via onboard aluminum heatsink
- Ideal for low distortion direct radiation subwoofers



15NLW9500 8Ω

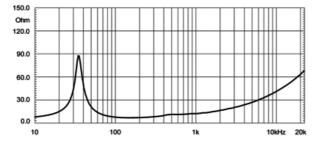
LF drivers - 15.0 Inches

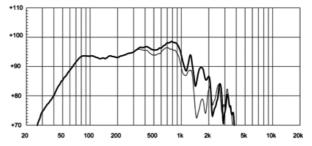
The 15NLW9500 is an extended low frequency loudspeaker which sets a new industry standard in 15" (380mm) neodymium 4" voice coil high performance transducers. The 15NLW9500 has remarkable 35Hz downwards extension with 96dB average sensitivity and achievable peak power levels of 7kW. Extensive care has been taken in order to symmetries both mechanical and electromagnetic non linear behaviour. The transducer has been designed to cover the low frequency band in bass reflex configuration. Application range moves from studio monitors up to cinema subwoofers as well as professional sound reinforcing systems, where deep low frequencies are required. It can be used in enclosures from 90 liters in size upwards, with tuning frequencies of about 33Hz. The neo magnet assembly assures high flux concentration, low power compression and excellent heat exchange. This results in high levels of force factor and power handling with an optimum power to weight ratio. The heatsink has been specifically studied using F.E.A. simulators and the necessary heat transfer to the dissipative structure has been improved. The heatsink concept has been further improved by using an air-diffractor that offers high thermal capacity and has been designed to force air moved by the dust cap through the fins and cool it down. The direct contact between the heatsink and the basket, together with the magnetic structure, represents a fundamental improvement in heat dissipation, increasing power handling capabilities and lowering the power compression figure.

The carbon fiber reinforced, straight-sided ribbed cone has been adopted in order to enable the transducer to withstand high loading designs as well as high power peaks.

Maximum strength, smooth response and high displacement piston motion have been obtained using Double Silicon Spider technology (DSS) and a large excursion surround.

The rubber suspension system has been designed to provide symmetric large signal behaviour throughout the whole working range, providing low harmonic distortion at different excitation levels.







15NLW9500 8Ω

LF drivers - 15.0 Inches

Neo

37 Hz

SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	8 Ω
Nominal Power Handling ¹	1000 W
Continuous Power Handling ²	1400 W
Sensitivity ³	96.0 dB
Frequency Range	42 - 2000 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	copper

Surround Shape Single roll - Rubber Cone Shape Straight Magnet Material Weather protected Woofer Cone Treatment 120.0 dm³ (4.24 ft³) Recommended Enclosure

PARAMETERS⁴

Resonance Frequency	35 Hz
Re	4.9 Ω
Qes	0.34
Qms	6.7
Qts	0.32
Vas	163.0 dm ³ (5.76 ft ³)
Sd	850.0 cm ² (131.75 in ²)
Xmax	9.0 mm
Mms	146.0 g
BI	21.6 Txm
Le	0.8 mH
EBP	102 Hz

MOUNTING AND SHIPPING INFO

Recommended Tuning

DESIGN

387 mm (15.24 in)
370 mm (14.57 in)
353.0 mm (13.9 in)
177 mm (6.97 in)
24 mm (0.94 in)
7.0 kg (15.43 lb)
7.6 kg (16.76 lb)
15.94x15.94x8.43 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.