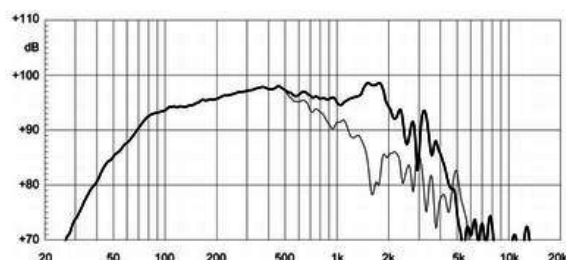
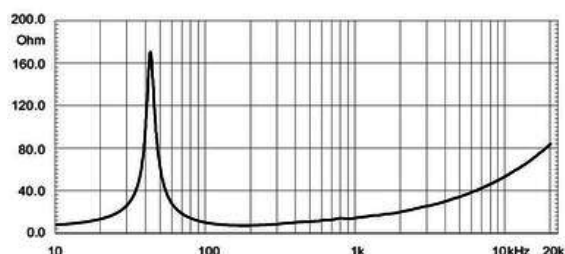


- 97 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich ISV copper clad voice coil
- 800W AES power handling
- Carbon fiber reinforced cone
- Double Demodulating Rings (DDR) for lower distortion
- Improved dissipation via onboard aluminum heatsink and multi-cell air diffractor
- External Neodymium magnet assembly
- Weather protected cone and plates for outdoor usage
- Recommended for line array and wedge monitor applications

The 15NLW9300 is a low frequency loudspeaker which sets a new industry standard in 15" (380mm) neodymium 4" voice coil high performance transducers. The design has evolved from an extensive R&D program carried out at Eighteen Sound, providing clean, undistorted LF reproduction at very high SPL without damages. The transducer is mainly intended as woofer in compact vented enclosures (65 - 130 lit). The external neo magnet assembly assures high flux concentration, low power compression and excellent heat exchange, resulting in high levels of force factor and power handling with an optimum power to weight ratio. The aluminum heatsink has been specifically studied using F.E.A. simulators and the necessary heat transfer to the dissipative structure has been improved. The direct contact between the heatsink and the basket represents a fundamental improvement in voice coil heat dissipation. A special low density multi-cell material air diffractor has been also placed into the backplate venting hole, acting as a cooling system, furtherly increasing power handling capability and lowering the power compression figure. The suspension system has been designed to provide symmetric large signal behaviour throughout the whole working range, providing low harmonic distortion at different excitation levels. The 15NLW9300 features a dedicated exclusive carbon fibre reinforced straight ribbed cone, with a specific pulp formulation containing damping fibres. The membrane is impregnated with a proprietary resin mix in order to increase the cone bend performances - up to 6 times better if compared with traditional celluloses pulp, twice than glass fibre added pulps. The result is a very linear piston action across the entire working range reducing breaking modes, and makes the 15NLW9300 suitable for outdoor application. The performances are further improved by the proprietary Double Demodulating Rings technology (DDR), designed to reduce dramatically the intermodulation and harmonic distortion whilst improving the transient response. The 100mm (4in) copper clad aluminum wire Interleaved Sandwich Voice coil (ISV) provides high levels of thermal stability and durability.





15NLW9300 8Ω

Altavoces LF - 15.0 Inches

ESPECIFICACIÓN

Diámetro nominal	380 mm (in)
Impedancia nominal	8 Ω
Impedancia minima	8.0 Ω
Manejo de potencia nominal	800 W
Manejo de potencia continua	1200 W
Sensibilidad	97.0 dB
Rango de frecuencia	50 - 3000 Hz
Diámetro de la bobina	100 mm (100.0 in)
Material de la bobina	aluminum

PARÁMETROS

Frecuencia de resonancia	39 Hz
Re	6.0 Ω
Qes	0.27
Qms	6.7
Qts	0.26
Vas	170.0 dm ³ (6.0 ft ³)
Sd	850.0 cm ² (131.75 in ²)
Xmax	8.0 mm
Mms	107.0 g
Bl	24.4 Txm
Le	0.95 mH
EBP	144 Hz

DISEÑO

Recinto recomendado	100.0 dm ³ (3.53 ft ³)
Sintonía recomendada	44 Hz

INFORMACIÓN DE MONTAJE Y ENVÍO

Diámetro total	387 mm (15.24 in)
Diámetro de circunferencia de los tornillos	370 mm (14.57 in)
Diámetro de la perforación en el baffle	353.0 mm (13.9 in)
Profundidad	174 mm (6.85 in)
Espesor del reborde y junta	19 mm (0.75 in)
Peso neto	6.8 kg (14.99 lb)
Peso del envío	7.9 kg (17.42 lb)
Caja de envío	405x405x214 mm (15.94x15.94x8.43 in)