



18NLW9000 4Ω

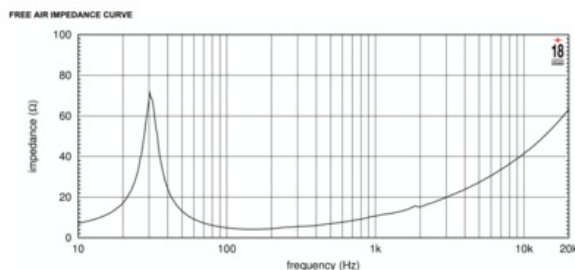
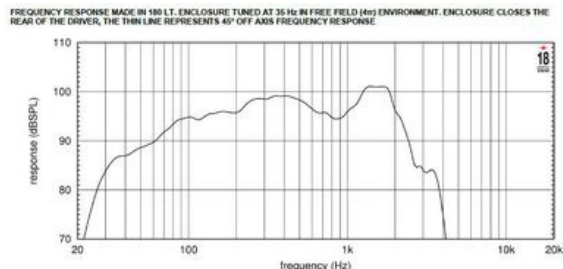
Altavoces LF - 18.0 Inches



- 135mm (5.3in) ISV
- 3600W program power handling
- Composite reinforced ribbed cone

The 18NLW9000 is a low frequency 18 inch neodymium high performance transducer and has been optimized for direct radiation and bandpass subwoofer cabinet designs. For optimum results recommended amplifier should be able to deliver 3600 Watt program power without clipping. At the heart of the updated design stays the improved double silicon spider based on DSS technology, letting the 18NLW9000 being able to control the moving mass with high linearity, showing an exceptional stability of mechanical parameter values in the long term. The transducer design features include a high performance large displacement suspension system for improved cone control at very high level of SPL matching. Eighteen Sound engineers have obtained the best possible results with today's available materials in terms of clean and undistorted LF reproduction at a ultra high SPL, with the lowest possible power compression figure. The state-of-the-art 5,3" diameter ISV copper voice coil enables the 18NLW9000 to handle up to 3600W program power. Bl force factor, as well as all other electro-dynamic parameters, are linear within the working range allowing 60mm of excursion before damage.

The 18NLW9000 has been developed after intense FEA and fluidodynamics simulation and testing, focusing on dissipating the heat generated by the powerful 5.3" coil. Special attention was given to the optimization of air flow into the gap without introducing audible noise. A special low density material air diffractor placed into the backplate acts as a cooling system, increasing the power handling capability and lowering the power compression figure. The low distortion and sound quality are further improved by an aluminum demodulating ring (SDR technology) that flatten impedance and phase with a constant power transfer. The carbon fiber reinforced, straight ribbed cone shows a proprietary resin treatment for extra pulp strength and water repellent properties. A special coating applied to both the top and back plates makes the transducer far more resistant to the corrosive effects of salts and oxidization.



ESPECIFICACIÓN

Impedancia nominal	4 Ω
Impedancia minima	4.1 Ω
Manejo de potencia nominal	1800 W
Manejo de potencia continua	3600 W
Sensibilidad	97.0 dB
Rango de frecuencia	32 - 2500 Hz
Diámetro de la bobina	135 mm (5.31 in)

DISEÑO

Recinto recomendado	200.0 dm ³ (7.06 ft ³)
Sintonía recomendada	36 Hz

PARÁMETROS

Frecuencia de resonancia	32 Hz
Re	3.1 Ω
Qes	0.22
Qms	5.0
Qts	0.21
Vas	247.0 dm ³ (8.72 ft ³)
Sd	1222.0 cm ² (189.41 in ²)
Xmax	14.0 mm
Mms	228.0 g
Bl	25.0 Txm
Le	1.2 mH
EBP	145 Hz

INFORMACIÓN DE MONTAJE Y ENVÍO

Diámetro total	462 mm (18.19 in)
Diámetro de circunferencia de los tornillos	440 mm (17.32 in)
Diámetro de la perforación en el baffle	422.0 mm (16.61 in)
Profundidad	237 mm (9.35 in)
Espesor del reborde y junta	26 mm (1.02 in)
Peso neto	12.5 kg (27.56 lb)
Peso del envío	14.0 kg (30.86 lb)
Caja de envío	482 x 482 x 257 mm (18.98x18.98x10.12 in)