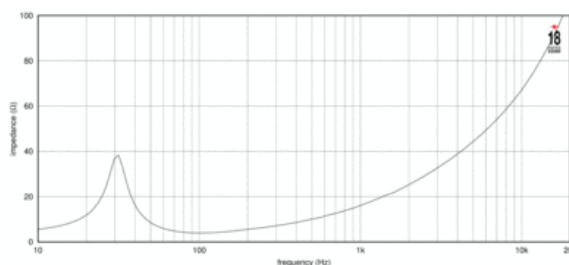
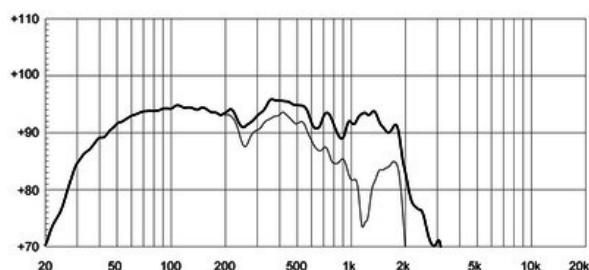




- 95 dB SPL 1W / 1m average sensitivity
- 135 mm (5.3 in) Interleaved Sandwich Voice coil (ISV)
- 3600W program power handling
- 60mm peak to peak excursion
- Ultra linear dual magnet motor design
- Single Demodulating Ring (SDR) for lower distortion
- Composite reinforced straight ribbed cone
- Optimized high grade ferrite magnet assembly
- Recommended for subwoofer usage in compact vented enclosures

The 21NLW9001 is an ultra low frequency 21 inch neodymium high performance transducer. The transducer is the evolution of the 21NLW9000 subwoofer, 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 21NLW9001 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 is an inside-outside split winding, four layers design, enabling the 21NLW9001 to handle up to 3600W program power. BL force factor, as well as all other electro-dynamic parameters, are linear within the working range. The high excursion design (70mm before damage, ± 14 mm linear Xmax) makes the The 21NLW9001 capable of amazing SPL in direct radiation enclosures and its motor 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.





21NLW9001 4Ω

Altavoces LF - 21.0 Inches

ESPECIFICACIÓN

Diámetro nominal	533 mm (in)
Impedancia nominal	4 Ω
Impedancia mínima	4.0 Ω
Manejo de potencia nominal	1800 W
Manejo de potencia continua	3600 W
Sensibilidad	95.0 dB
Rango de frecuencia	25 - 1500 Hz
Diámetro de la bobina	135 mm (5.3 in)

PARÁMETROS

Frecuencia de resonancia	31 Hz
Re	2.9 Ω
Qes	0.37
Qms	4.54
Qts	0.34
Vas	272.0 dm ³ (9.61 ft ³)
Sd	1662.0 cm ² (257.61 in ²)
η _o	2.1 %
X _{max}	14.0 mm
M _{ms}	375.0 g
Bl	23.8 Txm
Le	2.2 mH
EBP	83 Hz

DISEÑO

Recinto recomendado	300.0 dm ³ (10.59 ft ³)
Sintonía recomendada	33 Hz

INFORMACIÓN DE MONTAJE Y ENVÍO

Diámetro total	545 mm (21.46 in)
Diámetro de circunferencia de los tornillos	520 mm (20.47 in)
Diámetro de la perforación en el baffle	492.0 mm (19.37 in)
Profundidad	250 mm (9.84 in)
Espesor del reborde y junta	18 mm (0.71 in)
Peso neto	13.4 kg (29.54 lb)
Peso del envío	15.5 kg (34.17 lb)
Caja de envío	570x570x290 mm (22.44x22.44x11.42 in)