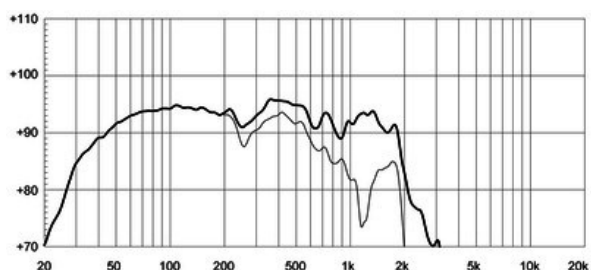
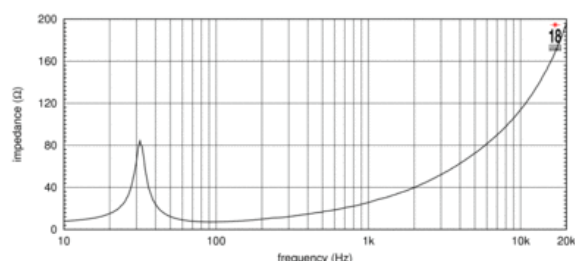


- 98 dB SPL 1W / 1m average sensitivity
- 135 mm (5.3 in) Interleaved Sandwich Voice coil (ISV)
- 3600W program power handling
- 60mm peak to peak excursion
- Ultra linear dual magnet motor design
- Single Demodulating Ring (SDR) for lower distortion
- Composite reinforced straight ribbed cone
- Optimized 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 8Ω

LF drivers - 21.0 Inches

SPECIFICATIONS

Nominal Diameter	533 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	7.6 Ω
Nominal Power Handling ¹	1800 W
Continuous Power Handling ²	3600 W
Sensitivity ³	98.0 dB
Frequency Range	25 - 1500 Hz
Voice Coil Diameter	135 mm (5.3 in)

PARAMETERS⁴

Resonance Frequency	32 Hz
Re	5.9 Ω
Qes	0.34
Qms	4.5
Qts	0.31
Vas	244.0 dm ³ (8.62 ft ³)
Sd	1662.0 cm ² (257.61 in ²)
Xmax	14.0 mm
Mms	390.0 g
Bl	37.0 Txm
Le	3.1 mH
EBP	94 Hz

DESIGN

Surround Shape	Triple roll
Cone Shape	Straight
Magnet Material	Neo
Woofer Cone Treatment	Water,UV repellent
Recommended Enclosure	300.0 dm ³ (10.59 ft ³)
Recommended Tuning	33 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	545 mm (21.46 in)
Bolt Circle Diameter	520 mm (20.47 in)
Baffle Cutout Diameter	492.0 mm (19.37 in)
Depth	250 mm (9.84 in)
Flange and Gasket Thickness	18 mm (0.71 in)
Net Weight	13.4 kg (29.54 lb)
Shipping Weight	15.5 kg (34.17 lb)
Shipping Box	570x570x290 mm (22.44x22.44x11.42 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.