



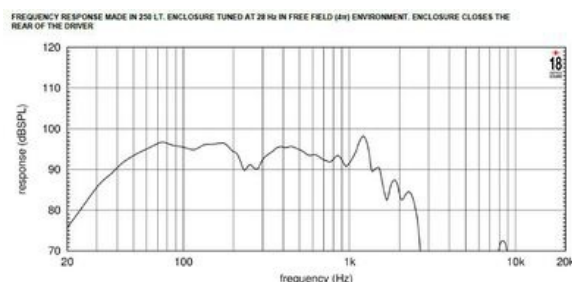
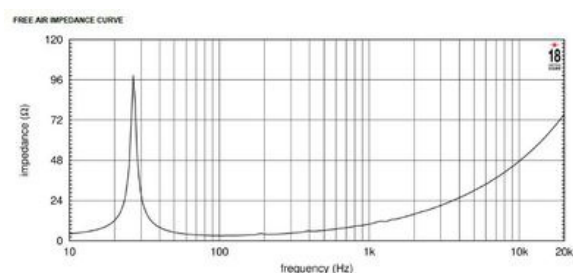
- 94 dB SPL 1W/ 1m sensitivity
- 100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
- 3200 W program power handling
- 70 mm (2,76 in) peak to peak excursion
- Single Demodulating Ring (SDR) for lower distortion
- Composite reinforced straight ribbed cone
- Optimized high grade neodymium magnet assembly
- Recommended for subwoofer usage in vented enclosures

The 21NLW4000 is a 21" (533 mm) extended low frequency loudspeaker, designed for use in vented enclosures. The loudspeaker is designed to withstand high power levels without damage while providing clean and undistorted LF reproduction at a very high SPL. For optimum results we recommend amplifiers able to deliver 3200 Watt program power.

The 21NLW4000 features a unique motor featuring a high grade neodymium magnet assembly in a structure optimized for thermal and magnetic efficiency.

The transducer features include a large displacement suspension system which, in conjunction with a composite reinforced, straight ribbed cone, allows an ultra-linear piston action and provides full mechanical control across the entire working range.

The 100mm (4 in) state-of-the-art voice-coil utilizing Interleaved Sandwich Voice coil (ISV) technology, provides high levels of thermal stability and durability. The ISV technology achieves a balanced linear motor unit exerting an exceptionally high force factor.



## SPECIFICATIONS

Nominal Diameter	533 mm ( in)
Nominal Impedance	4 Ω
Minimum Impedance	3.0 Ω
Nominal Power Handling <sup>1</sup>	1600 W
Continuous Power Handling <sup>2</sup>	3200 W
Sensitivity <sup>3</sup>	94.0 dB
Frequency Range	30 - 1800 Hz
Voice Coil Diameter	100 mm (4.0 in)

## DESIGN

Surround Shape	Triple roll
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	200.0 dm <sup>3</sup> (7.06 ft <sup>3</sup> )
Recommended Tuning	30 Hz

## PARAMETERS<sup>4</sup>

Resonance Frequency	27 Hz
Re	2.6 Ω
Qes	0.39
Qms	16.3
Qts	0.38
Vas	380.0 dm <sup>3</sup> (13.42 ft <sup>3</sup> )
Sd	1660.0 cm <sup>2</sup> (257.3 in <sup>2</sup> )
η <sub>o</sub>	1.9 %
X <sub>max</sub>	15.0 mm
M <sub>ms</sub>	355.0 g
Bl	20.0 Txm
Le	1.3 mH
EBP	69 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	245 mm (9.65 in)
Flange and Gasket Thickness	18 mm (0.71 in)
Net Weight	11.6 kg (25.57 lb)
Shipping Weight	13.1 kg (28.88 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.