21NLW4100 8Ω

LF drivers - 21.0 Inches

- 97 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
- 3000W program power handling
- 60 mm (2,76 in) 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 neo magnet assembly
- Recommended for subwoofer usage in high excursion vented enclosures

The 21NLW4100 is a 21" (533 mm) extended low frequency loudspeaker, designed for use in vented enclosures and infra subwoofers. 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 3000 Watt program power. The 21NLW4100 features a unique motor featuring a high grade neo magnet assembly in a structure optimized for thermal and magnetic efficiency. 21NLW4100 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.

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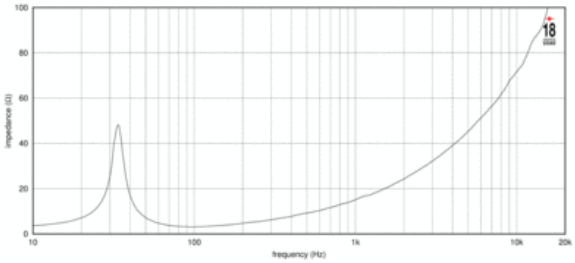

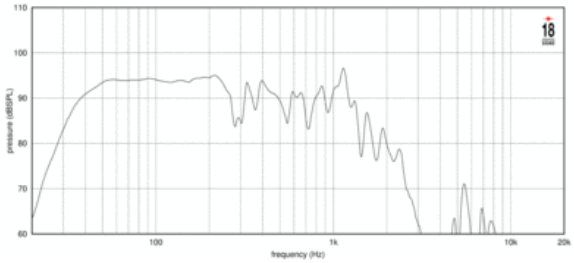

SPECIFICATIONS

Nominal Diameter	533 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	6.2 Ω
Nominal Power Handling[1]	1500 W
Continuous Power Handling[2]	3000 W
Sensitivity[3]	97.0 dB
Frequency Range	32 - 300 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Depth	36.5 mm (1.44 in)
Magnetic Gap Depth	12.4 mm (0.49 in)

DESIGN

Magnet Material	Neo
Recommended Enclosure	250.0 dm^3 (8.83 ft^3)
Recommended Tuning	33 Hz

PARAMETERS[4]

Resonance Frequency	36 Hz
Re	5.1 Ω
Qes	0.49
Qms	7.8
Qts	0.46
Vas	210.0 dm^3 (7.42 ft^3)
Sd	1661.0 cm^2 (257.46 in^2)
η_0	1.8 %
Xmax	15.2 mm
Xvar	17.0 mm
Mms	374.0 g
Bl	29.4 Txm
Le	2.1 mH
EBP	73 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	24 mm (0.94 in)
Net Weight	10.5 kg (23.15 lb)
Shipping Weight	12.0 kg (26.46 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.

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