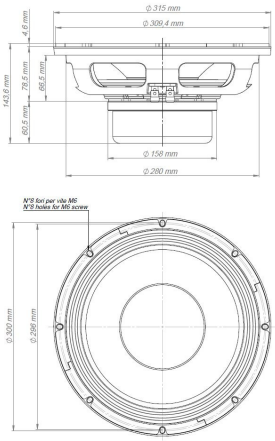
12NLW9410 8Ω

LF drivers - 12.0 Inches



- 95 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
- Single demodulating ring (SDR)
- 1000W AES power handling
- Reinforced water repellent treated cone
- High grade neodymium magnet assembly
- Improved heat dissipation via multiple back-plate vents
- Ideal for compact subwoofer cabinets

The 12NLW9410 is a 12" neodymium extended low frequency loudspeaker with 100mm (4in) diameter voice coil. It has been designed for use as a low bass or subwoofer component in either a more compact reflex, bandpass or horn loaded configuration. It provides clean, linear, undistorted low frequency reproduction at very high power levels. In its reflex configuration, it can be used in extremely compact enclosures (40 - 80 lt) with tuning frequency as low as 45 Hz. The high grade neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange, resulting in high levels of force factor and power handling with an optimum power to weight ratio. The high excursion capabilities of the surround and suspension system enables the 12NLW9410 to achieve high levels of linear travel and maintain full control of the moving mass. The 12NLW9410 features a dedicated reinforced water repellent treated cone, showing a high damping mode behaviour. The suspension system provides symmetric large signal characteristics throughout the whole working range, providing low harmonic distortion at different excitation levels. The 100mm (4in) Interleaved Sandwich Voice coil (ISV) provides high levels of thermal stability and durability. The weight of the windings are evenly distributed, providing a uniform motive drive. This, in conjunction with single demosdulating ring technology (SDR), results in an extremely linear motor assembly and low distortion along the all working band. The 12NLW9410 ability to perform properly under inclement weather conditions has been achieved using a special coating applied to metal plates.

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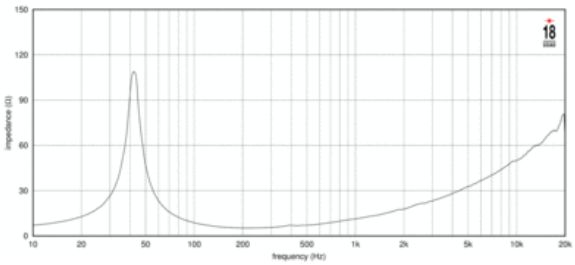

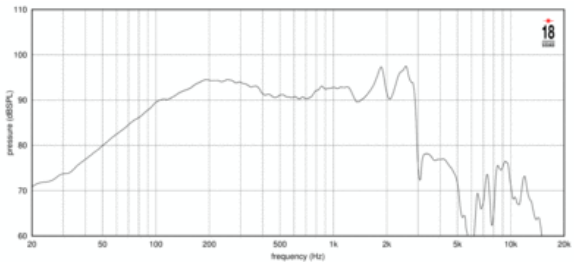

SPECIFICATIONS

Nominal Impedance	8 Ω
Minimum Impedance	5.3 Ω
Nominal Power Handling[1]	1000 W
Continuous Power Handling[2]	2000 W
Sensitivity[3]	95.0 dB
Frequency Range	45 - 3000 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Depth	28.0 mm (1.1 in)
Magnetic Gap Depth	12.0 mm (0.47 in)

DESIGN

Surround Shape	Triple roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	40.0 dm^3 (1.41 ft^3)
Recommended Tuning	45 Hz

PARAMETERS[4]

Resonance Frequency	42 Hz
Re	4.5 Ω
Qes	0.27
Qms	6.2
Qts	0.26
Vas	55.0 dm^3 (1.94 ft^3)
Sd	531.0 cm^2 (82.31 in^2)
η_0	1.5 %
Xmax	11.0 mm
Xvar	12.0 mm
Mms	105.0 g
Bl	21.7 Txm
Le	1.07 mH
EBP	155 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	310 mm (12.2 in)
Bolt Circle Diameter	295 mm (11.61 in)
Baffle Cutout Diameter	283.0 mm (11.14 in)
Depth	143 mm (5.65 in)
Flange and Gasket Thickness	16 mm (0.65 in)
Net Weight	7.3 kg (16.09 lb)

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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