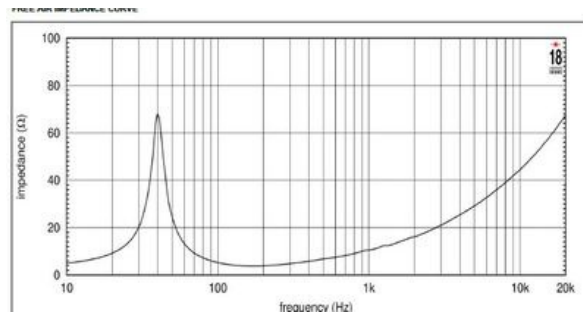
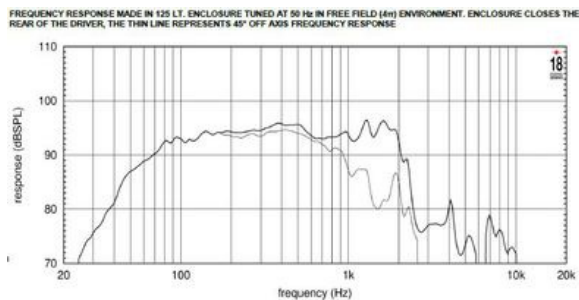




- 97 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
- 1200W AES power handling
- Fiberglass reinforced water repellent treated cone
- Double Silicon Spider (DSS) for improved excursion control and linearity
- High grade neodymium magnet assembly
- Improved heat dissipation via multiple back-plate vents
- Ideal for 60 to 130 lt subwoofer cabinets

The 15NLW9401 is a 15" 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 (60 - 130 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, in conjunction with the Double Silicon Spider (DSS), enable the 15NLW9401 to achieve high levels of linear travel and maintain full control of the moving mass. The 15NLW9401 features a dedicated fiberglass 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) 4-layers 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 the use of high temperature resistant adhesives, results in an extremely linear motor assembly. The 15NLW9401 ability to perform properly under inclement weather conditions has been achieved using a special coating applied to metal plates.



## SPECIFICATIONS

Nominal Diameter	380 mm ( in)
Nominal Impedance	4 Ω
Minimum Impedance	3.8 Ω
Nominal Power Handling <sup>1</sup>	1200 W
Continuous Power Handling <sup>2</sup>	2400 W
Sensitivity <sup>3</sup>	97.5 dB
Frequency Range	37 - 2300 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	copper

## DESIGN

Surround Shape	Triple roll
Cone Shape	Straight
Magnet Material	Neo
Spider	Double Silicon Spider
Woofer Cone Treatment	Weather protected
Recommended Enclosure	110.0 dm <sup>3</sup> (3.88 ft <sup>3</sup> )
Recommended Tuning	45 Hz

## PARAMETERS<sup>4</sup>

Resonance Frequency	40 Hz
Re	2.8 Ω
Qes	0.26
Qms	6.14
Qts	0.25
Vas	114.0 dm <sup>3</sup> (4.03 ft <sup>3</sup> )
Sd	850.0 cm <sup>2</sup> (131.75 in <sup>2</sup> )
Xmax	10.0 mm
Mms	150.0 g
Bl	20.0 Txm
Le	1.23 mH
EBP	153 Hz

## MOUNTING AND SHIPPING INFO

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	371 mm (14.61 in)
Baffle Cutout Diameter	354.0 mm (13.94 in)
Depth	180 mm (7.09 in)
Flange and Gasket Thickness	12 mm (0.47 in)
Net Weight	7.5 kg (16.53 lb)
Shipping Weight	8.5 kg (18.74 lb)
Shipping Box	405x405x214 mm (15.94x15.94x8.43 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.