

15NLW9401

Extended LF Neodymium Transducer

97,5 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



GENERAL SPECIFICATIONS

Nominal Diameter	380mm (15 in)
Rated Impedance	8 Ohm
AES Power (1)	1200W
Program Power (2)	2400W
Peak Power	7000W
Sensitivity (3)	97,5 dB
Frequency Range (4)	37 - 2300 Hz
Power Compression @-10dB	0,7 dB
Power Compression @-3dB	1,4 dB
Power Compression @Full Power	2,0 dB
Max Recomm. Frequency	500 Hz
Recomm. Enclosure Volume	60 - 130 lt. (2,12 - 4,59 cuft)
Minimum Impedance	7,2 Ohm at 25°C
Max Peak To Peak Excursion	38 mm (1,53 in)

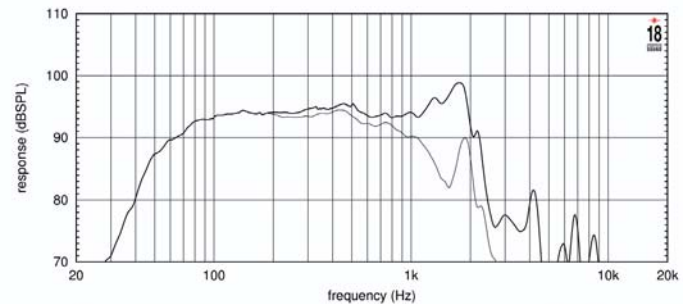
THIELE SMALL PARAMETERS (5)

Fs	39 Hz
Re	5,2 Ohm
Sd	0,09 sq.mt. (139,5 sq.in.)
Qms	4,13
Qes	0,28
Qts	0,26
Vas	134 lt (4,73 cuft)
Mms	140 gr (0,31 lb)
BL	25,4 Tm
Linear Mathematical Xmax (6)	±10 mm (±0,39 in)
le (1kHz)	1,9 mH
Ref. Efficiency 1W@1m (half space)	96,7 dB

MOUNTING INFORMATION

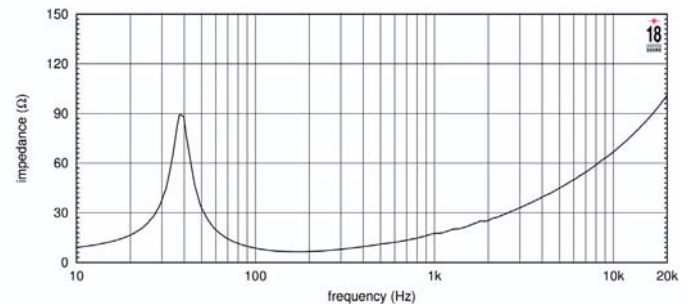
Overall diameter	393 mm (15,47 in)
N. of mounting holes and bolt	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	371 mm (14.6 in)
Front mount baffle cutout Ø	354 mm (13.93 in)
Rear mount baffle cutout Ø	360 mm (14.17 in)
Total depth	180 mm (7.13 in)
Flange and gasket thickness	12,5 mm (0.49 in)
Net weight	7,6 kg (16.78 lb)
Shipping weight	8,2 kg (18.96 lb)
CardBoard Packaging dimensions	405x405x214 mm (15,94x15.94x8,43 in)

FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE OF 15NLW9401 MADE ON 125 LIT. ENCLOSURE TUNED AT 50HZ IN FREE FIELD (4P) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE.

FREE AIR IMPEDANCE MAGNITUDE CURVE



NOTES

- 1) AES power is determined according to AES2-1984 (r2003) standard
- 2) Program power rating is measured in 125 lt enclosure tuned at 50Hz using a 40-400Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
- 3) The peak power rating represents the maximum permitted instantaneous peak power level over a maximum period of 10ms which will be withstood by the loudspeaker without damage.
- 4) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m from the baffle panel, when connected to 2,83V sine wave test signal swept between 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for #2 above.
- 5) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.
- 6) Linear Math. Xmax is calculated as $(Hvc-Hg)/2 + Hg/4$ where Hvc is the coil depth and Hg is the gap depth.