15NLW9300

LF Neodymium Transducer

97 dB SPL 1W / 1m average sensitivity
100 mm (4 in) Interleaved Sandwich ISV copper clad voice coil
800W AES power handling
Carbon fiber reinforced cone
Double Demodulating Rings (DDR) for lower distortion
Improved dissipation via onboard aluminum heatsink and multi-cell air diffractor

GENERAL SPECIFICATIONS

Nominal Diameter	380mm (15 in)
Rated Impedance	8 Ohm
AES Power (1)	800W
Program Power (2)	1200W
Peak Power	2400W
Sensitivity (3)	97dB
Frequency Range (4)	50 - 3000 Hz
Power Compression @-10dB	0,6 dB
Power Compression @-3dB	2,1 dB
Power Compression @Full Power	3,0 dB
Max Recomm. Frequency	1200 Hz
Recomm. Enclosure Volume	65 - 150 lt. (2,30 - 5,30 cuft)
Minimum Impedance	8 Ohm at 25°C
Max Peak To Peak Excursion	37 mm (1,46 in)

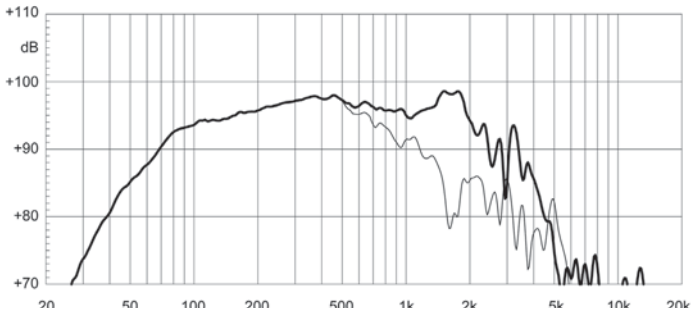
THIELE SMALL PARAMETERS (5)

Fs	39 Hz
Re	6 Ohm
Sd	0,09 sq.mt. (139,5 sq.in.)
Qms	6,7
Qes	0,274
Qts	0,26
Vas	170 lt. (6 cuft)
Mms	107 gr. (0,24 lb)
BL	24,4 Tm
Linear Mathematical Xmax (6)	±8 mm (±0,31 in)
Le (1kHz)	0,95 mH
Ref. Efficiency 1W@1m (half space)	98 dB

MOUNTING INFORMATION

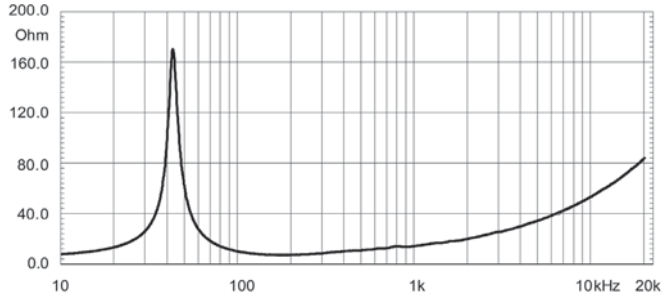
Overall diameter	387 mm (15,24 in)
N. of mounting holes and bolt	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	370-371 mm (14,55-14,6 in)
Front mount baffle cutout Ø	353 mm (13,9 in)
Rear mount baffle cutout Ø	357 mm (14,06 in)
Total depth	174 mm (6,85 in)
Flange and gasket thickness	19,5 mm (0,76 in)
Net weight	6,8 kg (15 lb)
Shipping weight	7,6 kg (16,78 lb)
CardBoard Packaging dimensions	405x405x214 mm (15,94x15.94x8,43 in)

FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE OF 15NLW9300 MADE ON 125 LIT. ENCLOSURE TUNED AT 50HZ IN FREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE.

FREE AIR IMPEDANCE MAGNITUDE CURVE



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 50-500Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
(3) 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 1000Hz with the test specimen mounted in the same enclosure as given for #2 above.
(4) 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.
(5) Thiele - Small parameters are measured after the test specimen has been conditioned by 800 W AES power and represent the expected long term parameters after a short period of use.
(6) Linear Math. Xmax is calculated as (Hvc-Hg)/2 + Hg/4 where Hvc is the coil depth and Hg is the gap depth.