

18NLW9601

Extended LF Neodymium Driver

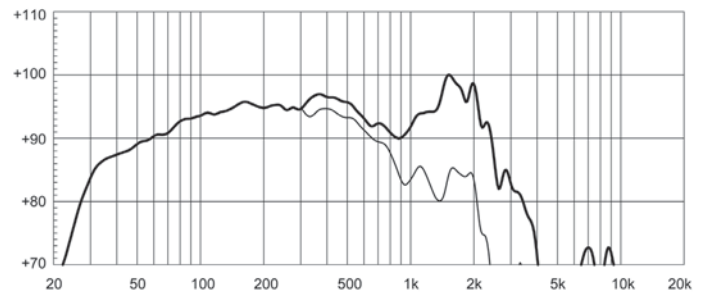
97 dB SPL 1W / 1m average sensitivity
 135 mm (5.3 in) split winding four layers ISV aluminum voice coil
 3600 W program power handling
 Carbon fiber reinforced cellulose cone
 Double Silicon Spider (DSS) for improved excursion control
 Aluminum demodulating ring (SDR) for lower distortion
 High force neodymium magnet assembly
 Weather protected cone and plates for outdoor usage
 Suitable for reflex, bandpass or horn loaded high SPL subwoofer systems



GENERAL SPECIFICATIONS

Nominal Diameter	462mm (18 in)
Rated Impedance	8 Ohm
AES Power (1)	1800W
Program Power (2)	3600W
Peak Power	10000W
Sensitivity (3)	97 dB
Frequency Range (4)	30 - 2500 Hz
Power Compression @10dB	0,7 dB
Power Compression @3dB	1,5 dB
Power Compression @Full Power	2,2 dB
Max Recomm. Frequency	300 Hz
Recomm. Enclosure Volume	110 - 350 lt. (3,88 - 12,36 cuft)
Minimum Impedance	7,6 Ohm at 25°C
Max Peak To Peak Excursion	70 mm (2,75 in)

FREQUENCY RESPONSE CURVE

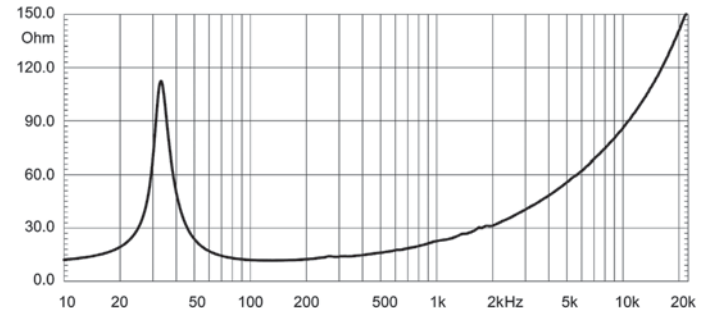


FREQUENCY RESPONSE MEASURED WITH 2.83V AT 1MT DISTANCE ON CENTRAL FORWARD AXIS FROM THE MOUTH OF XR1564 HORN. THIN LINE REPRESENTS IMPEDANCE MEASURED IN SAME CONDITIONS.

THIELE SMALL PARAMETERS (5)

Fs	32 Hz
Re	4,7 Ohm
Sd	0,113 sq.mt. (1,75.15 sq.in.)
Qms	5
Qes	0,28
Qts	0,27
Vas	164 lt. (5,8 cuft)
Mms	270 gr. (0,6 lb)
BL	30 Tm
Linear Mathematical Xmax (6)	±14 mm (±0,55 in)
Le (1kHz)	2,10 mH
Ref. Efficiency 1W@1m (half space)	94,6 dB

FREE AIR IMPEDANCE MAGNITUDE CURVE



FREQUENCY RESPONSE MEASURED WITH 1W INPUT ON RATED IMPEDANCE ON CENTRAL FORWARD AXIS IN A PLANE WAVE TUBE. THIN LINE REPRESENTS IMPEDANCE MEASURED IN SAME CONDITIONS.

MOUNTING INFORMATION

Overall diameter	462 mm (18,18 in)
N. of mounting holes and bolt	8
Mounting holes diameter	8,5 mm (0,33 in)
Bolt circle diameter	440mm (17,32 in)
Front mount baffle cutout Ø	416 mm (16,38 in)
Rear mount baffle cutout Ø	422 mm (16,61 in)
Total depth	236 mm (9,29 in)
Flange and gasket thickness	26 mm (1,02 in)
Net weight	12,5 kg (27,6 lb)
Shipping weight	14 kg (30,9 lb)
CardBoard packaging dimensions	482x482x257 mm (19x19x10,1 in)

NOTES

- 1) AES power is determined according to AES2-1984 (r2003) standard
- 2) Program power rating is measured in 180 lit enclosure tuned 35Hz 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 3V 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 $(Hvc \cdot Hg) / 2 + Hg / 4$ where Hvc is the coil depth and Hg is the gap depth.