

# 12W750

## LF Ferrite Transducer

97 dB SPL 1W / 1m average sensitivity  
 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)  
 1200 W program power handling  
 Long excursion, linear travel suspension design  
 Weather protected cone and plates for outdoor use  
 Generous low frequency output make it suitable for 2-way systems and subwoofer applications

### GENERAL SPECIFICATIONS

Nominal Diameter	300 mm (12 in)
Rated Impedance	8 Ohm
AES Power (1)	600 W
Program Power (2)	1200 W
Peak Power	2500 W
Sensitivity (3)	97 dB
Frequency Range (4)	50 - 4600 Hz
Power Compression @-10dB	0,9 dB
Power Compression @-3dB	2,8 dB
Power Compression @Full Power	3,8 dB
Max Recomm. Frequency	1800 Hz
Recomm. Enclosure Volume	40 - 90 lt. (1,41 - 3,18 cuft)
Minimum Impedance	6,4 Ohm at 25°C
Max Peak To Peak Excursion	38 mm (1,50 in)

### THIELE SMALL PARAMETERS (5)

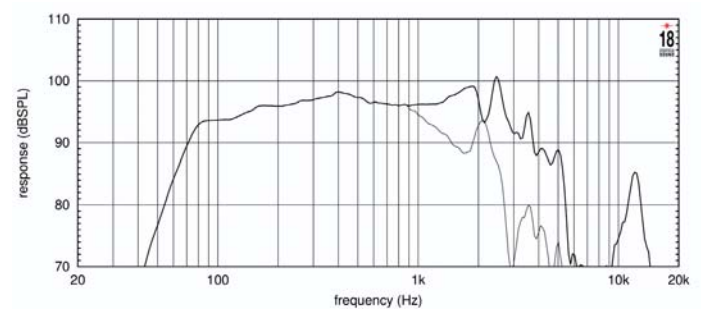
Fs	49 Hz
Re	5,2 Ohm
Sd	0,0531 sq.mt. (82,31 sq.in.)
Qms	7,00
Qes	0,30
Qts	0,28
Vas	73 lt. (2,58 cuft)
Mms	57 gr. (0,13 lb)
BL	18 Tm
Linear Mathematical Xmax (6)	± 8 mm (± 0,31 in)
le (1kHz)	0,95 mH
Ref. Efficiency 1W@1m (half space)	96,6 dB

### MOUNTING INFORMATION

Overall diameter	310 mm (12,2 in)
N. of mounting holes and bolt	8
Mounting holes diameter	5,90 mm (0,23 in)
Bolt circle diameter	295 mm (11,61 in)
Front mount baffle cutout Ø	280 mm (11,02 in)
Rear mount baffle cutout Ø	280 mm (11,02 in)
Total depth	148 mm (5,83 in)
Flange and gasket thickness	13,5 mm (0,53 in)
Net weight	7,5 kg (16,5 lb)
Shipping weight	8,3 kg (18,26 lb)
CardBoard Packaging dimensions	332 x 332 x 184 mm (13,07 x 13,07 x 7,24 in)

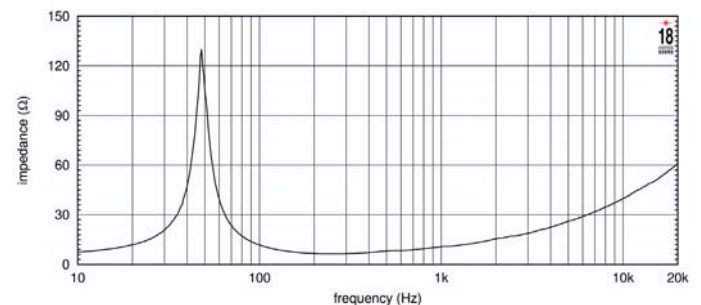


### FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE OF 12W750 MADE ON 50 LIT. ENCLOSURE TUNED 60HZ 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 50 lit enclosure tuned 60Hz using a 40 - 400Hz 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 500Hz with the test specimen mounted in the same enclosure as given for (1) 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 AES power and represent the expected long term parameters after a short period of use.
- (6) Linear Math. Xmax is calculated as  $(HvcHg)/2 + Hg/4$  where Hvc is the coil depth and Hg is the gap depth.