



# 12W500

## LF Ferrite Transducer

99,5 dB SPL 1W / 1m average sensitivity  
 65 mm (2,5 in) Interleaved Sandwich Voice coil (ISV)  
 350 W AES power handling  
 Excellent transient response  
 Improved heat dissipation via unique basket design  
 Ideal for compact two way systems

### GENERAL SPECIFICATIONS

Nominal Diameter	300 mm (12 in)
Rated Impedance	8 Ohm
AES Power (1)	350 W
Program Power (2)	500 W
Peak Power	1000 W
Sensitivity (3)	99,5 dB
Frequency Range (4)	50 - 6000 Hz
Power Compression @-10dB	0,7 dB
Power Compression @-3dB	2,5 dB
Power Compression @Full Power	4,1 dB
Max Recomm. Frequency	2500 Hz
Recomm. Enclosure Volume	50 - 100 lt. (1,77 - 3,53 cuft)
Minimum Impedance	6,4 Ohm at 25°C
Max Peak To Peak Excursion	22 mm (0,87 in)

### THIELE SMALL PARAMETERS (5)

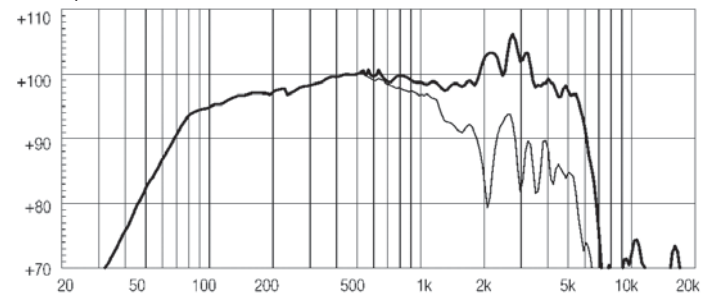
Fs	46 Hz
Re	5,2 Ohm
Sd	0,0531 sq.mt. (82,31 sq.in.)
Qms	6,02
Qes	0,38
Qts	0,36
Vas	123 lt. (4,34 cuft)
Mms	36,5 gr. (0,08 lb)
BL	12,1 Tm
Linear Mathematical Xmax (6)	± 4 mm (±0,16 in)
Le (1kHz)	1,12 mH
Ref. Efficiency 1W@1m (half space)	97,2 dB

### MOUNTING INFORMATION

Overall diameter	315 mm (12,4 in)
N. of mounting holes and bolt	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	296 - 300 mm (11,65 - 11,8 in)
Front mount baffle cutout Ø	282 mm (11,1 in)
Rear mount baffle cutout Ø	282 mm (11,1 in)
Total depth	141 mm (5,55 in)
Flange and gasket thickness	16,5 mm (0,65 in)
Net weight	4,5 kg (9,93 lb)
Shipping weight	5,3 kg (11,7 lb)
CardBoard Packaging dimensions	332 x 332 x 184 mm (13,07 x 13,07 x 7,24 in)

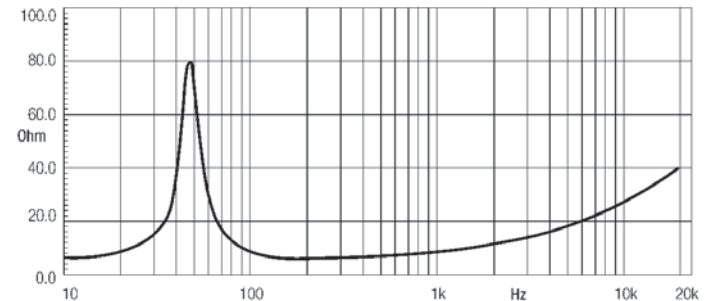


### FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE OF 12W500 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 55 - 2500Hz 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 350 W 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.