

12MB650

High Output MB Ferrite Transducer

98 dB SPL 1W / 1m sensitivity
 65 mm (2.5 in) Edgewound Aluminum Voice coil (EWAL)
 800W program power handling
 Improved heat dissipation via proprietary basket design
 Weather protected cone and plates for outdoor usage
 Ideal for high quality two way and stage monitor applications

GENERAL SPECIFICATIONS

Nominal Diameter	300 mm (12 in)
Rated Impedance	8 Ohm
AES Power (1)	400 W
Program Power (2)	800 W
Peak Power	1600 W
Sensitivity (3)	98 dB
Frequency Range (4)	45 - 5000 Hz
Power Compression @-10dB	0,7 dB
Power Compression @-3dB	1,5 dB
Power Compression @Full Power	2,2 dB
Max Recomm. Frequency	2000 Hz
Recomm. Enclosure Volume	70 - 150 lit. (2.47 - 5.30 cuft)
Minimum Impedance	7,2 Ohm at 25°C
Max Peak To Peak Excursion	24 mm (0,95 in)

THIELE SMALL PARAMETERS (5)

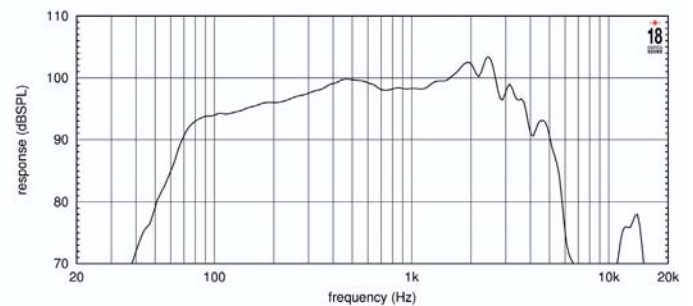
Fs	48 Hz
Re	6,0 Ohm
Sd	0,053 sq.mt. (82,15 sq.in.)
Qms	3,2
Qes	0,24
Qts	0,23
Vas	90 lit. (3.18 cuft)
Mms	48 gr. (0.11 lb)
BL	19 Tm
Linear Mathematical Xmax (6)	± 5,5 mm (± 0.22 in)
Le (1kHz)	0,83 mH
Ref. Efficiency 1W@1m (half space)	98,1 dB

MOUNTING INFORMATION

Overall diameter	310 mm (12,2 in)
N. of mounting holes and bolt	8
Mounting holes diameter	5,9 mm (0,23 in)
Bolt circle diameter	295 mm (11.61 - 11,8 in)
Front mount baffle cutout Ø	280 mm (11,02 in)
Rear mount baffle cutout Ø	280 mm (11,02 in)
Total depth	143 mm (5.63 in)
Flange and gasket thickness	14 mm (0.55 in)
Net weight	6,8 kg (14.95 lb)
Shipping weight	7,5 kg (16.53 lb)
CardBoard Packaging dimensions	332 x 332 x 184 mm (13,07 x 13,07 x 7,24 in)

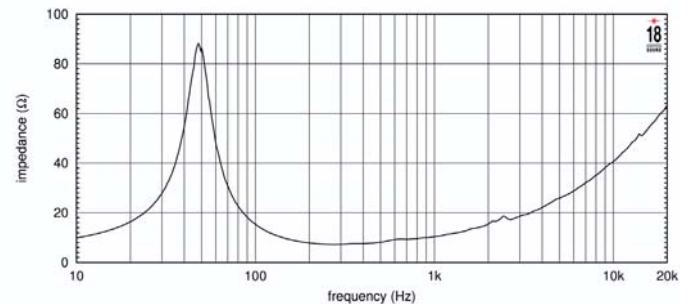


FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE 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 250 lit. enclosure tuned at 28 Hz using a 30-300 band limited pink noise test signal applied for 2 hours and with 50% duty cycle
- (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 500Hz and 2500Hz 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 450 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.