



SOVEREIGN 15-250

Bass driver optimised for use in two way ported enclosures

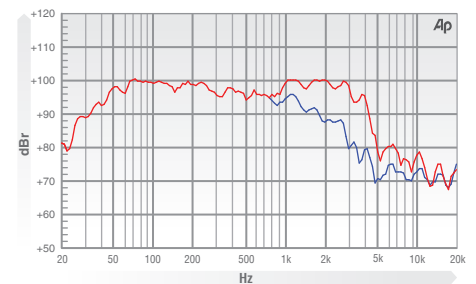
ELECTRO ACOUSTIC SPECIFICATIONS	
Nominal Chassis Diameter	15"
Impedance	8 Ω
Power Handling	250 w (EIA 426A)
Peak Power (6dB Crest Factor)	500 w (EIA 426A)
Usable Frequency Range -6dB	40 Hz - 3 KHz
Sensitivity (1 w - 1 m)	97 dB
Moving Mass inc. Air Load	90
Minimum Impedance Zmin	7.1 Ω
Effective Piston Diameter	15.03" / 382 mm
Peak Displacement Volume of Cone Vd	0.25 litres
Magnet Weight	34 oz
Magnetic Gap Depth	0.31" / 8 mm
Flux Density	1 Tesla
Coil Winding Height	0.59" / 15 mm
Voice Coil Diameter	2.0" / 50.8 mm

THIELE SMALL PARAMETERS	
FS Hz	43 Hz
RE Ohms	6.2 Ω
Qms	7.18
Qes	0.81
Qts	0.73
Vas Ltr	144
Vd litres	0.247
CMS (mm/N)	0.14
BL T/m	13.72
Mms (grms)	90
Xmax (mm)	4.35
Sd (cm ²)	853
Efficiency %	1.59
Le (1kHz)	1.8 mH

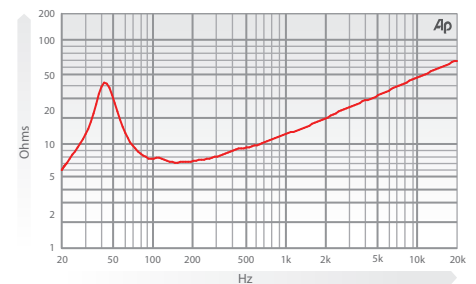
MATERIALS OF CONSTRUCTION	
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Steel
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Linen
Dust Dome	Paper
Connectors	Solder Tag
Polarity	Positive Voltage at Red Terminal Causes Forward Motion of Cone

MOUNTING / SHIPPING INFORMATION	
Overall Diameter	15.00" / 381 mm
Flange Height	0.35" / 9 mm
Baffle Hole Diameter F/M	13.85" / 352 mm
Baffle Hole Diameter R/M	13.85" / 352 mm
Gasket Supplied	Front & Rear
Fixing Holes	8x 6.35 mm on 14.56" / 369.2 mm PCD
Depth	6.65" / 169 mm
Weight	7.38 lb / 3.35 kg
Recommended Enclosure Volume	1.76 - 4.41 cu ft / 50 - 125 litres
Shipping Weight	10.13 lb / 4.6 kg
Packing Carton Dimensions	220 x 420 x 420 mm

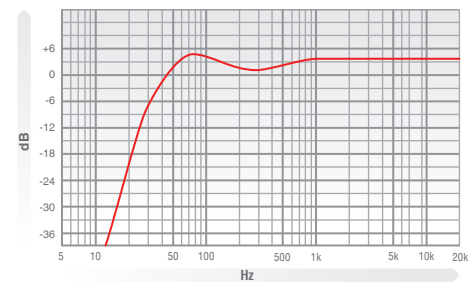
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



* Half space response measured in a 975 litre sealed box ** Normalised bass response in 175 litre vented enclosure tuned to 40Hz • Please enquire about alternative impedances. • EIA 426A, power handling test. Pink noise bandpass filtered at 12 dB per octave. Driver mounted in free air, test signal applied at rated power for 8 hours. • Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.