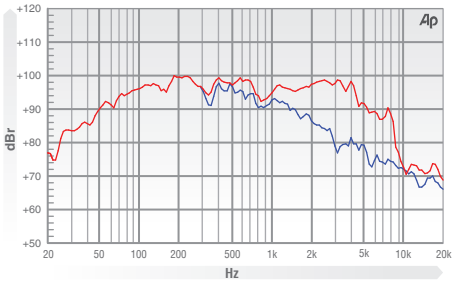
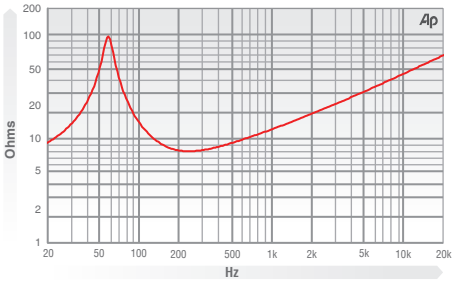
SOVEREIGN 10-300

Mid bass driver is intended for use in two-way ported enclosures, such as the classic bass driver plus horn tweeter or compression driver format. The driver exhibits a smooth frequency response to give a balanced tonal characteristic when properly matched to appropriate high-frequency drivers. Designed for use in 15 to 40 litre ported enclosures and features a 2.5 inch 'sandwich' (inside and outside winding) voice coil, 300 Watt power handling and 97.5 dB sensitivity.

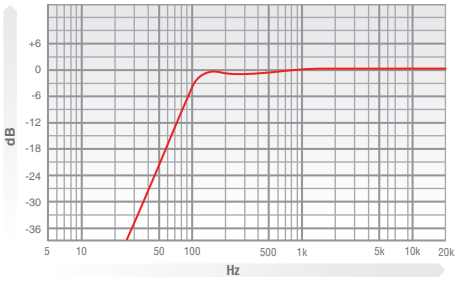
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	10"
Impedance	8 Ω
Power Handling	300 w (EIA 426A)
Peak Power (6dB Crest Factor)	1200 w (EIA 426A)
Usable Frequency Range -6dB	45 Hz - 5 kHz
Sensitivity (1 w - 1 m)	97.5 dB
Moving Mass inc. Air Load	37 grams
Minimum Impedance Zmin	7.6 Ω
Effective Piston Diameter	8.46" / 215 mm
Peak Displacement Volume of Cone Vd	0.22 litres
Magnet Weight	56 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.0 Tesla
Coil Winding Height	0.70" / 18 mm
Voice Coil Diameter	2.5" / 63.5 mm

THIELE SMALL PARAMETERS

FS Hz	58 Hz
RE Ohms	5.7 Ω
Qms	6.08
Qes	0.33
Qts	0.313
Vas Ltr	43
Vd litres	0.142
CMS (mm/N)	0.211
BL T/m	15.3
Mms (grms)	37
Xmax (mm)	5.5
Sd (cm^2)	378
Efficiency %	2.25
Le (1kHz)	1.68 mH

MATERIALS OF CONSTRUCTION

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

MOUNTING / SHIPPING INFORMATION

Overall Diameter	10.15" / 258 mm
Flange Height	0.27" / 7 mm
Baffle Hole Diameter F/M	9.21" / 234 mm
Baffle Hole Diameter R/M	9.21" / 234 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 6.5 mm on 9.72" / 246.88 mm PCD
Depth	4.44" / 113 mm
Weight	10.57 lb / 4.8 kg
Recommended Enclosure Volume	0.88 - 1.76 cu ft / 25 - 50 litres
Shipping Weight	12.01 lb / 5.45 kg
Packing Carton Dimensions	150 x 280 x 280 mm

* Half space response measured in a 975 litre sealed box ** Normalised bass response in 25 litre vented enclosure tuned to 50Hz • 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.