



SOVEREIGN 15-500

High-power woofer with outstanding SPL output, for use in 2 way pro-sound applications. Ideally suited for medium to large vented boxes. Also works well in a sealed box as a mid/bass or as a floor wedge. Great for bass guitar in vented cabinets.

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15"
Impedance	8 Ω
Power Handling	500 w (EIA 426A)
Peak Power (6dB Crest Factor)	2000 w (EIA 426A)
Usable Frequency Range -6dB	40 Hz - 4 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	97.6 grams
Minimum Impedance Zmin	6.2 Ω
Effective Piston Diameter	15.03" / 382 mm
Peak Displacement Volume of Cone Vd	0.49 litres
Magnet Weight	80 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.70" / 18 mm
Voice Coil Diameter	3.0" / 76.2 mm

THIELE SMALL PARAMETERS

FS Hz	35 Hz
RE Ohms	5.2 Ω
Qms	7.7
Qes	0.35
Qts	0.34
Vas Ltr	220
Vd litres	0.49
CMS (mm/N)	0.212
BL T/m	17.95
Mms (grms)	97.65
Xmax (mm)	3.45
Sd (cm ²)	855
Efficiency %	2.9
Le (1kHz)	2.19 mH

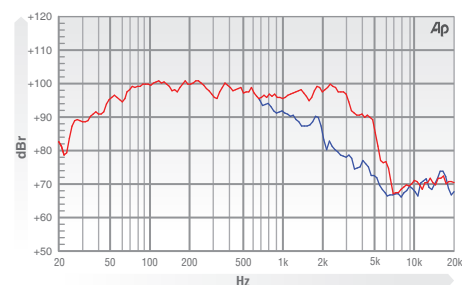
MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Copper
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

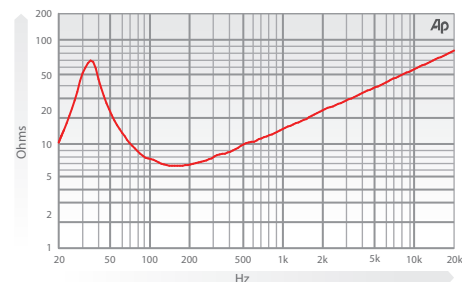
MOUNTING / SHIPPING INFORMATION

Overall Diameter	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	6.41" / 163 mm
Weight	16.20 lb / 7.7 kg
Recommended Enclosure Volume	1.76 - 4.41 cu ft / 50 - 125 litres
Shipping Weight	18.96 lb / 8.6 kg
Packing Carton Dimensions	220 x 420 x 420 mm

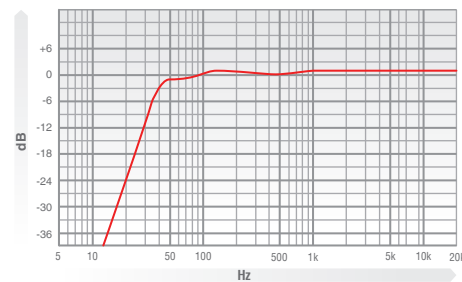
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



* Half space response measured in a 975 litre sealed box ** Normalised bass response in 175 litre vented enclosure tuned to 35Hz • 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.