



inal Chassis Diameter 8 Ω 450 (A.E.S.) 40 Hz - 3.5 kHz 98 dB 59 grams 7 Ω Power Handling
Usable Frequency Range -6
Sensitivity 1 w - 1m
Moving Mass inc. Air Load
Minimum Impedance Zmin
Effective Piston Diameter
Peak Displacement Volume
of Cone Vd
Magnet Weight
Magnetic Gap Depth
Flux Density
Coil Winding Height
Voice Coil Length
Voice Coil Diameter 10.24" / 260 mm 0.58 litres

93 oz 0.35" / 9 mm 1.16 Tesla 0.70" / 18 mm 72 ft / 21.8 m

# THIELE SMALL PARAMETERS

FS Hz RE Ohn RE Ohms
Oms
Oes
Ots
Vas Ltr
Vd Litres
CMS (mm/N)
BL T/m
Mms (grms)
Xmax mm
Sd cm2
Efficiency % 0.286 56 0.58 0.142 0.053 m2

## MOUNTING / SHIPPING INFORMATION 13" / 330.2 mm

13" / 330.2 mm 12.19" / 309.5 mm 0.305" / 7.8 mm 11.03" / 281 mm 10.13" / 257 mm Front & Rear 4 x 0.218" diam on 12.5 PCD 4 x 5.5 mm diam on 317.5 PCD 5.39" / 137 mm 17.1 lb / 7.8 kg 0.88-2.83 cu ft /

25-80 litres 0.10 cu ft / 2.8litres 20.2 lb / 9.2 kg 340 x 340 x 222 mm

# MATERIALS OF CONSTRUCTION

Fibreglass Aluminium Ferrite Die-cast Al Ferrite
Die-cast Aluminium
Curvilinear Polycellulose
Polyvinyl Damped Multi
Roll Linen
Solid Paper
Push-button Spring
Terminals Terminals
Positive Voltage at Red
Terminal Causes Forward
Motion of Cone

COMPUTER PREDICTED BASS RESPONSE:

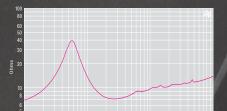
# APPLICATION NOTES:

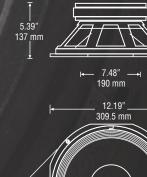
The Colossus 12MB is intended for use as a very high-output bass mid driver in two-way ported enclosures and also as a bass driver in multiway systems. The unit features a 3-inch voice coil driven by a noninductive motor system which dramatically reduces third-harmonic and intermodulation distortion. The cone membrane, manufactured from Polycellulose, is much stronger and more durable than conventional paper pulp alternatives. This allows the driver to combine high-sensitivity with the structural integrity required to produce undistorted low frequencies at high output levels. The mechanical and electrical properties of the unit have been carefully optimised to allow extended low frequency output up to its rated power handling of 450 Watts (A.E.S continuous), with peak power handling in excess of 1800 Watts. The driver exhibits an average sensitivity of 98 dB and is best used in ported enclosures of 25 to 80 litres.

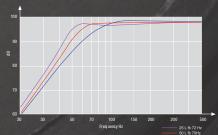
### FREQUENCY RESPONSE DATA:

IMPEDANCE:











nental 10 % Power nental on–axis 1 W nental 45° off–axis 1 W

A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 30 Hz and 300 Hz. Driver mounted in free air, test signal applied al rated power for two hours.