

Nominal Chassis Diameter 8,4 Ω 1000 (A.E.S.) Usable Frequency Range -6
Sensitivity 1 w - 1m
Moving Mass inc. Air Load
Minimum Impedance Zmin
Effective Piston Diameter
Peak Displacement Volume 27 Hz - 1 kHz 98 dB 144 grams 15.19" / 386mm of Cone Vd Magnetic Gap Depth Flux Density Coil Winding Height Voice Coil Length 0.43" / 11 mm 1.0 Tesla 0.98" / 25 mm 118 ft / 36 m

Voice Coil Diameter 4.0" / 101.6 m THIELE SMALL PARAMETER

FS Hz RE Ohms 32 Hz 5.8 Ω Qms
Qes
Qts
Vas Ltr
Vd Litres
CMS (mm/N) 6.8 0.336 0.32 236 BL T/m Mms (grms) Xmax mm Sd cm2 26.6 192.8 12.75

MOUNTING / SHIPPING INFORMATION

Baffle Hole Diameter F/M Baffle Hole Diameter R/M

nded Enclosure Volume Displaced by Driver

Shipping Weight
Packing Carton Dimens

19.1" / 485 mm 18" / 457 mm 0.465" / 11.8 mm 16.53" / 420 mm 16.33" / 414 mm Front & Rear 8 x 7 diam on 468 PCD 8 x 7 diam on 438.15 PCD 3.5-8.8 cu ft / 100-200 Litres 0.269 cu ft / 7.6 Litres 36.37 lb / 16.5 kg 485 x 485 x 276 mm

19.1" / 485 mm

MATERIALS OF CONSTRUCTION

Former Material Voice Coil Fibreglas Copper Ferrite **Magnet Material** Die-cast Aluminium
Curvilinear Polycellulose
Polyvinyl Damped Multi
Roll HG poly/cotton Surround / Edge Termination

Connectors

Polarity

Solid Paper
Push-button Spring Terminals
Positive Voltage at Red
Terminal Causes Forward Motion of Cone

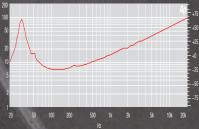
APPLICATION NOTES:

The Colossus 18-1000 is intended for use as a high-output sub-bass driver either singly or in multiway systems. It is suitable for loading in a variety of enclosure types since it allows enclosure designers considerably more freedom with specialised loading techniques without having to make allowances for physical characteristics or power handling limitations. The unit features a 4-inch voice coil immersed in a symmetric magnetic field and centralized by using two suspensions in a dual arrangement to maintain ultra linearity and stability at high excursions. The curvilinear Polycellulose cone is reinforced with high strength Fibrillated Nylon fibres to resist deformation under extreme loads. The driver handles 1000 Watts (A.E.S.) continuous and can cope with peaks in excess of 4000 Watts. This is due to advanced thermal management in the form of a vented diecast chassis and motor system using an internal heat sink coupled with increased motor system and voice coil venting. These measures effectively remove heat from the voice coil resulting in extremely low-power compression. The Colossus 18-1000 is designed for use in 100 to 250 litre ported enclosures.

FREQUENCY RESPONSE DATA:



IMPEDANCE:





- Please inquire about alternative impedances.
 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 at rated power for two 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.

