



minal Chassis Diameter 8,4 Ω 600 (A.E.S.) 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
Magnett Weight
Magnette Gan Deoth 30 Hz - 1 kHz 98 dB 148 grams 7 Ω 14.84" / 377 mm 1.61 litres

Magnetic Gap Depth Flux Density Coil Winding Height 120 oz 0.43 inch/11 mm 1.04 Tesla 0.87" / 22 mm 115 ft / 35 m Coil Winding Height Voice Coil Length 4.0" / 101.6 mi

## THIELE SMALL PARAMETER

FS Hz RE Ohn Qms Qes Qts Vas Ltr Vas Ltr Vd Litres CMS (mm/N) BL T/m Mms (grms) 0.112 m2 3.41

# **MOUNTING / SHIPPING INFORMATION**

18" / 485 mm 18" / 457 mm 0.465" / 11.8 mm 16.53" / 420 mm 16.33" / 414 mm Baffle Hole Diameter F/M Baffle Hole Diameter R/M

Front & Rear 8 x 0.275" diam on 18.425 PCD / 8 x 0.275 diam on 17.25 PCD 8 x 7 mm diam on 468 PCD/8 x 7 diam on 438.15 PCD 8.18" / 208 mm 29.92 lb / 13.6 kg 4.41-14.12 cu ft /

125-400 litres 0.269 cu ft / 7.6 litres 34.32 lb / 15.6 kg 485 x 485 x 276 mm ne Displaced by Driver

Fibreglass
Copper
Ferrite
Die-cast Aluminium
Curvilinear Polycellulose
Polyvinyl Damped Dbl.
Half Roll Linen Former Material Voice Coil Magnet Material urround / Edge Termination Solid Paper
Push-button Spring Connectors

Terminals
Positive Voltage at Red
Terminal Causes Forward Polarity Motion of Cone

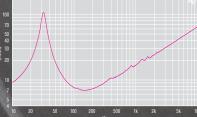
### APPLICATION NOTES:

The Colossus 18B-600 is intended for use as a high-output bass driver in multiway systems. It features a 4-inch voice coil immersed in a symmetric magnetic field yielding increased linearity and lower distortion. This, coupled with a large Xmax of 7.2 mm, ensures tight, punchy bass at high levels of excursion. 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 extreme sound pressure levels. The driver handles 600 Watts (A.E.S) continuous and can cope with peaks in excess of 2400 Watts. This is due to advanced thermal management in the form of vented die-cast chassis and motor system coupled to a large vaned heatsink mounted on the rear of the unit. These measures effectively remove heat from the voice coil, resulting in extremely low-power compression. The Colossus 18B-600 exhibits 98 dB sensitivity and can deliver bass down to 32 Hz (-6 dB) in a 200 litre ported enclosure.

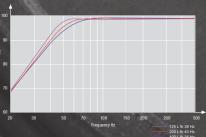
# FREQUENCY RESPONSE DATA:

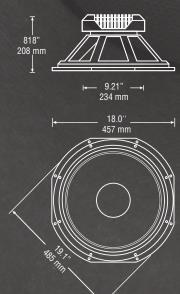
IMPEDANCE:





## COMPUTER PREDICTED BASS RESPONSE:





- 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.