

#### **ELECTRO ACOUSTIC SPECIFICATIONS**

minal Chassis Diameter Usable Frequency Range - Sensitivity 1 w - 1m Moving Mass inc. Air Load Minimum Impedance Zmin Effective Piston Diameter Peak Displacement Volume of Cone Vd Magnet Weinbt 30 Hz - 1 kHz 98 dB 122 grams 7.5 Ω

-0.43" / 11 mm 1.06 Tesla 0.87" / 22 mm 115 ft / l35 m 4.0" / 101.6 mm

### THIELE SMALL PARAMETERS

FS Hz RE Ohms Qms Qes Qts Vas Ltr Vd Litres CMS (mm/N) BL T/m Mms (grms) Xmax mm Sd cm2

## **MOUNTING / SHIPPING INFORMATION**

Width Across Flats Flange Height Baffle Hole Diameter F/M Baffle Hole Diameter R/M

18" / 485 mm 18" / 457 mm 0.465" / 11.8 mm 16.53" / 420 mm 16.33" / 414 mm 16.33" / 414 mm 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 16.10 lb / 7.55 kg 4.41-14.12 cu ft / 125-400 litres 125-400 litres 0.269 cu ft / 7.6 litres 21.00 lb / 9.55 kg 485 x 485 x 276 mm

ded Encl

#### **MATERIALS OF CONSTRUCTION**

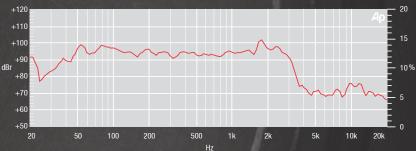
Fibreglass
Aluminium
Neodymium
Die-cast Aluminium
Curvilinear Polycellulose
Polyvinyl Damped Dbl Half
Roll Linen

Motion of Cone

#### **APPLICATION NOTES:**

The Colossus 18B-600N 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 highsensitivity 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 increased motor system venting. These measures effectively remove heat from the voice coil, resulting in extremely low-power compression. The Colossus 18B-600N exhibits 98 dB sensitivity and can deliver bass down to 32 Hz (-6 dB) in a 200 litre ported enclosure.

## FREQUENCY RESPONSE DATA:

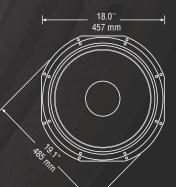


Half space response measured in a 975 litre sealed box

# IMPEDANCE:







- Please inquire about alternative impedances.
  A.E.S. power handling test. Pink noise bandpass filtered at12 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.