15" / 381 mm CHASSIS DIAMETER

BASS DRIVER

COLOSSUS 15XB | SUB

THE PROFESSIONAL

800 W (A.E.S.)

40 Hz - 1 kHz

4.0" / 101.6 mm

COPPER - INSIDE/ OUTSIDE WINDINGS VOICE COIL

99 dB

7.5 mm Xmax
MAXIMUM LINEAR EXCURSION

- Deep, warm, well controlled bass.
- Heavily ribbed, fibre loaded, UK manufactured straight sided cone for increased strength, durability and performance.

The Colossus 15XB is intended for use as a high output sub-bass driver either singly or in multi-way systems. The unit features a 4 inch 'sandwich' inside and outside windings 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 heavily ribbed straight-sided paper cone membrane is reinforced with high-strength composite fibres to resist deformation under extreme loads. The driver handles 800 Watts (A.E.S.) continuous and can cope with peaks in excess of 3200 Watts. This is due to advanced thermal management in the form of a vented die-cast chassis and motor system using an internal heat sink coupled to a large vaned heat sink mounted on the rear of the unit. These measures effectively remove heat from the voice coil resulting in extremely low-power compression. The Colossus 15XB is designed for use in 70 to 150 Litre ported enclosures.

#### **ELECTRO ACOUSTIC SPECIFICATIONS**

Nominal Chassis Diameter	15" / 381 mm
Impedance	4 Ohm / 8 Ohm / 16 Ohm
Power Handling	800 W (A.E.S.)
Peak Power (6dB Crest Factor)	3200 W (A.E.S.)
Usable Frequency Range -6dB	40 Hz - 1 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	108 grams
Minimum Impedance Zmin	7.5 Ω
Effective Piston Diameter	13.03" / 330.96 mm
Magnet Weight	120 oz
Magnetic Gap Depth	0.39" / 9.90 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.90" / 22.86 mm
Voice Coil Diameter	4.0" / 101.6 mm

## **MOUNTING / SHIPPING INFORMATION**

Overall Diameter	16" / 406.4 mm
Width Across Flats	15.25" / 387.4 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	13.85" / 351.79 mm
Baffle Hole Diameter R/M	14" / 355.6 mm
Gasket Supplied	Front & Rear
Outer Fixing Holes	4x Ø 0.281" on 15.5" PCD / 4x Ø 7.1 mm on 393.7 mm PCD
Inner Fixing Holes	8x Ø 0.281" on 14.56" PCD / 8x Ø 7.1 mm on 370 mm PCD
Depth	7.13" / 181.00 mm
Weight	27.28 lb / 12.40 kg
Recommended Enclosure Volume	2.47 - 5.29 cu ft / 70 - 150 Litres
Shipping Weight	30.58 lb / 13.90 kg
Packing Carton Dimensions	(W) 440 (D) 440 (H) 220 mm

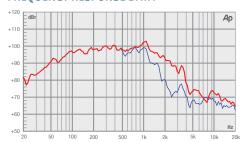
#### THIELE SMALL PARAMETERS

38 Hz
6.2 Ω
7.480
0.336
0.320
168.00 Litres
0.641 Litres
0.162 mm/N
22.08 T/m
108 grams
7.5 mm
855.3 cm <sup>2</sup>
2.100%
1.50 mH
113.10 Hz

## **MATERIALS OF CONSTRUCTION**

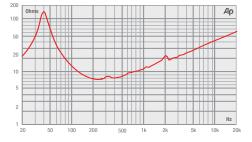
Former Material	Glass Fibre
Voice Coil	Copper - Inside/ Outside Windings
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Straight Polycellulose Ribbed Cone
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red terminal causes forward motion of cone

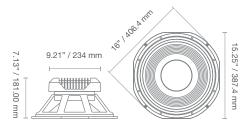
# FREQUENCY RESPONSE DATA<sup>†</sup>



† Half space response measured in a 975 Litre sealed box.

### **IMPEDANCE**





- \* Please enquire about alternative impedance
- \* A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 40 Hz and 400 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.