

COLOSSUS 12XB

BASS DRIVER

12" / 304.8 mm CHASSIS DIAMETER	500 W (A.E.S.) AES POWER HANDLING	45 Hz - 1 kHz FREQUENCY RESPONSE	3.0" / 76.2 mm COPPER VOICE COIL	97 dB SENSITIVITY (1W/ 1m)	10.5 mm Xmax MAXIMUM LINEAR EXCURSION
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- Suitable for horn loaded / bandpass applications producing hard hitting, punchy bass.
- Exceptional efficiency, power handling and frequency coverage from compact design.
- Rugged die-cast chassis.
- UK manufactured cone offers increased strength, durability and performance.
- Extended usable frequency.

The Colossus 12XB is intended for use in compact bass cabinet or horn loaded applications. The driver can also be used in two-way ported enclosures combined with Fane compression driver and horn offering excellent coverage with clear detailed reproduction. The unit features die-cast chassis with long throw motor system and high linearity suspension allowing fast solid bass reproduction at high-power levels.

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	4 Ohm / 8 Ohm / 16 Ohm
Power Handling	500 W (A.E.S.)
Peak Power (6dB Crest Factor)	2000 W (A.E.S.)
Usable Frequency Range -6dB	45 Hz - 1 kHz
Sensitivity (1 w - 1 m)	97 dB
Moving Mass inc. Air Load	70.8 grams
Minimum Impedance Zmin	6.24 Ω
Effective Piston Diameter	10.24" / 260.00 mm
Magnet Weight	105.82 oz
Magnetic Gap Depth	0.32" / 8.00 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.98" / 25.00 mm
Voice Coil Diameter	3.0" / 76.2 mm

MOUNTING / SHIPPING INFORMATION

Overall Diameter	8.9" / 226 mm
Width Across Flats	8.25" / 209.5 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	11.03" / 280.16 mm
Baffle Hole Diameter R/M	10.13" / 257.30 mm
Gasket Supplied	Front & Rear
Outer Fixing Holes	4x Ø 5.5 mm on 317.5 mm PCD
Inner Fixing Holes	N/A
Depth	5.71" / 145.00 mm
Weight	17.00 lb / 7.71 kg
Recommended Enclosure Volume	25 - 65 Litres
Shipping Weight	19.00 lb / 8.62 kg
Packing Carton Dimensions	(W) 330 (D) 330 (H) 170 mm

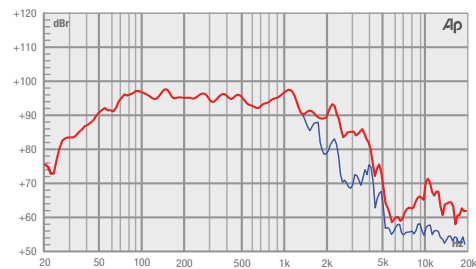
THIELE SMALL PARAMETERS

FS Hz	43 Hz
RE Ohms	5.2 Ω
Qms	5.810
Qes	0.254
Qts	0.244
Vas Ltr	78.00 Litres
Vd Litres	0.560 Litres
CMS (mm/N)	0.196 mm/N
BL T/m	20 T/m
Mms (grms)	70.8 grams
Xmax (mm)	10.5 mm
Sd (cm²)	531.6 cm²
Efficiency %	2.316%
Le (1k Hz)	2.49 mH
EBP	169.29 Hz

MATERIALS OF CONSTRUCTION

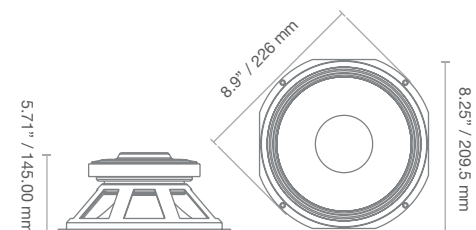
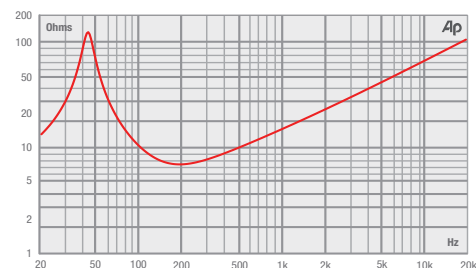
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton
Dust Dome	Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red terminal causes forward motion of cone

FREQUENCY RESPONSE DATA†



† Half space response measured in a 965 Litre sealed box. Blue Line = fundamental 45° off-axis.

IMPEDANCE



* Please enquire about alternative impedances.

* A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 50 Hz and 500 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.