

THE PROFESSIONAL SERIES COLOSSUS 12XB

BASS DRIVER



12" / 304.8 mm
CHASSIS DIAMETER

500 w (A.E.S.)
POWER HANDLING

97 dB
SENSITIVITY (1w / 1m)

45 Hz - 1 kHz
FREQUENCY RESPONSE

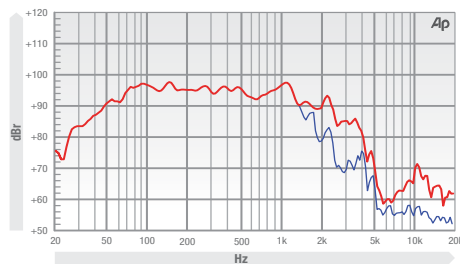
3.0" / 76.2 mm
COPPER VOICE COIL

10.5 mm Xmax

Product Features:

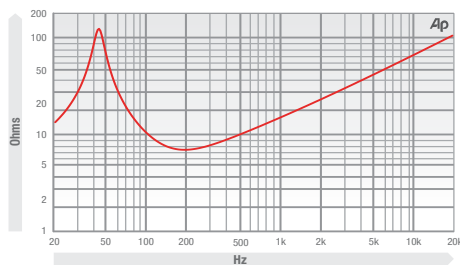
- Suitable for horn loaded / Bandpass applications producing hard hitting, punchy bass
- Exceptional efficiency, power handling and frequency coverage from compact design.
- Rugged die cast chassis
- UK manufactured cone offers increased strength, durability and performance.
- Extended usable frequency

FREQUENCY RESPONSE DATA*

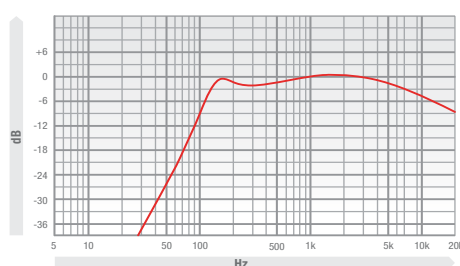


* Half space response measured in a 965 litre sealed box.
Blue Line = fundamental 45° off-axis

IMPEDANCE



PREDICTED BASS RESPONSE



** Normalised bass reponse in 65 litre tuned to 55 Hz

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	4/ 8/ 16 Ω
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
Peak Displacement Volume of Cone Vd	0.56 litres
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
Fixing Holes	4x 5.5 mm ∅ on 317.5 mm PCD
Depth	Not Applicable
Weight	5.71" / 145.00 mm
Recommended Enclosure Volume	17.00 lb / 7.71 kg
Shipping Weight	25-65 litres
Packing Carton Dimensions	19.00 lb / 8.62 kg

THIELE SMALL PARAMETERS

FS Hz	43 Hz
RE Ohms	5.2 Ω
Qms	5.81
Qes	0.254
Qts	0.244
Vas Ltr	78 litres
Vd litres	0.56 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

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

- 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.

