

COLOSSUS 15XB

SUB BASS DRIVER



15" / 381 mm

CHASSIS DIAMETER

1600 W

PROGRAM POWER

40 Hz - 1 kHz

FREQUENCY RESPONSE

4" / 101.6 mm

VOICE COIL

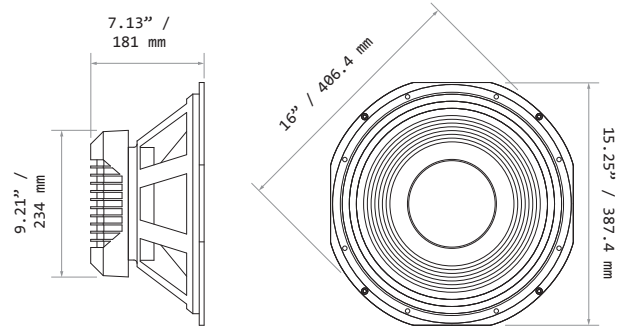
99 dB

SENSITIVITY (1W/1m)

7.5 mm Xmax

MAX. LINEAR EXCURSION

- + Versatile replacement driver for most bass reflex applications. Providing deep, warm and well controlled bass.
- + Vented chassis and motor design provides efficient thermal management and extremely low power compression.
- + Dual 'spaced' suspension system and advanced materials offers ultra-linearity, mechanical stability and superior acoustic performance at high levels of excursion.
- + Heavily ribbed, fibre loaded, UK manufactured straight sided cone for increased strength, durability and performance.
- + Designed for optimum use in 70-150 Litre ported enclosure designs.
- + 4-Inch Inside/ outside windings copper voice coil.



GENERAL SPECIFICATIONS

Nominal Chassis Diameter	15" / 381 mm
Nominal Impedance ⁽¹⁾	8 Ohm
Minimum Impedance Zmin	7.5 Ω
AES Power Handling ⁽²⁾	800 W (A.E.S.)
Program Power	1600 W
Peak Power (6dB Crest Factor)	3200 W
Frequency Range ^(6dB)	40 Hz - 1 kHz
Sensitivity (1W/1m)	99 dB
Magnet Material	Ferrite
Magnet Weight	120 oz
Magnetic Gap Depth	0.39" / 9.90 mm
Flux Density	1.1 Tesla
Former Material	Glass Fibre
Voice Coil Material	Copper - Inside/ Outside
Coil Winding Height	0.90" / 22.86 mm
Voice Coil Diameter	4" / 101.6 mm
Cone/ Dust Dome Material	Straight Poly-cellulose Ribbed / Solid Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton

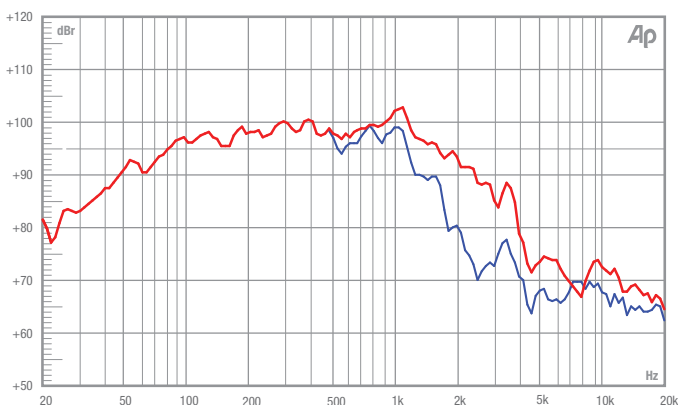
TECHNICAL & THIELE SMALL PARAMETERS

Fs	38 Hz
Re	6.2 Ω
Qms	7.48
Qes	0.336
Qts	0.32
Vas	168 Litres
Vd	0.641 Litres
Cms	0.162 mm/N
Bl	22.08 T/m
Mms	108 g
Xmax	7.5 mm
Sd	855.3 cm ²
Efficiency	2.1 %
Le (1k Hz)	1.5 mH
EBP	113.1 Hz
Effective Piston Diameter	13.03" / 330.96 mm
Rec. Enclosure Volume	2.47 - 5.29 ft ³ / 70 - 150 Litres

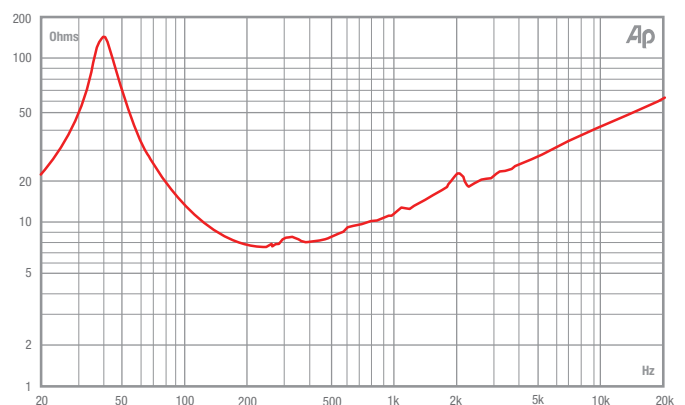
MOUNTING / SHIPPING INFORMATION

Overall Diameter	16" / 406.4 mm
Width Across Flats	15.25" / 387.4 mm
Depth	7.13" / 181 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
Chassis Material	Die-cast Aluminium
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
Connectors ⁽⁴⁾	Push-button Spring Terminals
Weight	27.28 lb / 12.4 Kg
Shipping Weight	30.58 lb / 13.9 Kg
Packing Carton Dimensions (mm)	(W) 440 (D) 440 (H) 220

FREQUENCY RESPONSE DATA⁽³⁾



IMPEDANCE



(1) Please enquire about alternative impedances.

(2) 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.

(3) Half space response measured in a 975 Litre sealed box. Blue line = fundamental 45° off-axis. 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.

(4) Positive voltage at red terminal causes forward motion of cone.