BASS DRIVER

1000 W (A.E.S.)
AES POWER HANDLING

30 Hz - 500 Hz

4.0" / 101.6 mm

COPPER - INSIDE/ OUTSIDE WINDINGS VOICE COIL

98 dB

12 mm Xmax

- Highest grade Y35 ferrite magnet structure.
- Fibre loaded, UK manufactured cone offering increased strength, durability and performance.
- Low interference flux path.
- Aluminium demodulation ring.
- 60 mm peak to peak maximum linear excursion.

The Prime 15XS is intended for use as a high output bass driver in multi-way systems and features a 4 inch 'sandwich' (inside and outside windings) voice coil, immersed in a symmetric magnetic field yielding increased linearity and lower distortion. This, coupled with laminated silicone suspensions, a large Xmax of 12 mm with peak to peak travel of 60 mm, ensures fast accurate 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 high sensitivity with the structural integrity required to produce undistorted low frequencies at extreme sound pressure levels. The driver handles 1200 Watts (A.E.S.) continuous and can cope with peaks in excess of 4800 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 Prime 15XS exhibits 98 dB sensitivity and can deliver bass down to 29 Hz (-6 dB) in a 200 Litre ported enclosure.

ELECTRO ACOUSTIC SPECIFICATIONS

BASS DRIVER

COLOSSUS PRIME 15XS

THE PROFESSIONAL SERIES

Nominal Chassis Diameter	15" / 381 mm
Impedance	4 Ohm / 8 Ohm / 16 Ohm
Power Handling	1000 W (A.E.S.)
Peak Power (6dB Crest Factor)	4000 W (A.E.S.)
Usable Frequency Range -6dB	30 Hz - 500 Hz
Sensitivity (1 w - 1 m)	98 dB
Moving Mass inc. Air Load	133 grams
Minimum Impedance Zmin	6.84 Ω
Effective Piston Diameter	15.43" / 391.92 mm
Magnet Weight	145 oz
Magnetic Gap Depth	0.43" / 11.00 mm
Flux Density	1.1 Tesla
Coil Winding Height	1.18" / 30.00 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 8 x Ø 0.281" on 14.56" PCD / 8x Ø 7.1 mm on 370 mm PCD Depth 7.71" / 196.00 mm Weight 28.00 lb / 12.70 kg Recommended Enclosure Volume 2.47 - 4.41 cu ft / 70 - 125 Litres Shipping Weight 30.45 lb / 13.80 kg Packing Carton Dimensions (W) 430 (D) 430 (H) 230 mm		
Flange Height 0.305" / 7.8 mm	Overall Diameter	16" / 406.4 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 0 0.281" on 15.5" PCD / 4x 0 7.1 mm on 393.7 mm PCD Inner Fixing Holes 8 x 0 0.281" on 14.56" PCD / 8x 0 7.1 mm on 370 mm PCD Depth 7.71" / 196.00 mm Weight 28.00 lb / 12.70 kg Recommended Enclosure Volume 2.47 - 4.41 cu ft / 70 - 125 Litres Shipping Weight 30.45 lb / 13.80 kg	Width Across Flats	15.25" / 387.4 mm
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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 7.71" / 196.00 mm Weight 28.00 lb / 12.70 kg Recommended Enclosure Volume 2.47 - 4.41 cu ft / 70 - 125 Litres Shipping Weight 30.45 lb / 13.80 kg	Baffle Hole Diameter F/M	13.85" / 351.79 mm
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 7.71" / 196.00 mm Weight 28.00 lb / 12.70 kg Recommended Enclosure Volume 2.47 - 4.41 cu ft / 70 - 125 Litres Shipping Weight 30.45 lb / 13.80 kg	Baffle Hole Diameter R/M	14" / 355.6 mm
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Depth 7.71" / 196.00 mm PCD	Outer Fixing Holes	1X D 0.201 011 1010 1 0D7
Weight 28.00 lb / 12.70 kg Recommended Enclosure Volume 2.47 - 4.41 cu ft / 70 - 125 Litres Shipping Weight 30.45 lb / 13.80 kg	Inner Fixing Holes	
Recommended Enclosure 2.47 - 4.41 cu ft / Volume 70 - 125 Litres Shipping Weight 30.45 lb / 13.80 kg	Depth	7.71" / 196.00 mm
Volume 70 - 125 Litres Shipping Weight 30.45 lb / 13.80 kg	Weight	28.00 lb / 12.70 kg
		2
Packing Carton Dimensions (W) 430 (D) 430 (H) 230 mm	Shipping Weight	30.45 lb / 13.80 kg

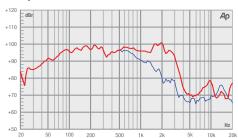
THIELE SMALL PARAMETERS

36.3 Hz	36.3 Hz
5.2 Ω	5.2 Ω
7.700	7.700
0.320	0.320
0.310	0.310
149.70 Litres	149.70 Litres
1.010 Litres	1.010 Litres
0.147 mm/N	0.147 mm/N
22.1 T/m	22.1 T/m
133 grams	133 grams
12 mm	12 mm
855 cm ²	855 cm ²
2.140%	2.140%
1.93 mH	1.93 mH
113.44 Hz	113.44 Hz
0.147 mm/N 22.1 T/m 133 grams 12 mm 855 cm ² 2.140% 1.93 mH	0.147 mm/N 22.1 T/m 133 grams 12 mm 855 cm² 2.140% 1.93 mH

MATERIALS OF CONSTRUCTION

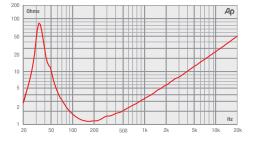
Former Material	Glass Fibre
Voice Coil	Copper - Inside/ Outside Windings
Magnet Material	Ferrite Y35
Chassis	Die-cast Aluminium
Cone	Curvilinear Polycellulose
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton
Dust Dome	Solid Paper (Inverted)
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red terminal causes forward motion of cone

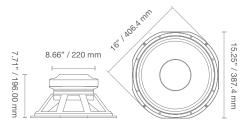
FREQUENCY RESPONSE DATA†



† Half space response measured in a 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 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.