

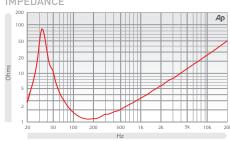
**BASS DRIVER** 



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 12mm with peak to peak travel of 60mm, 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.

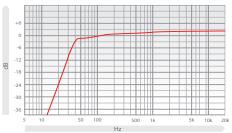


IMPEDANCE

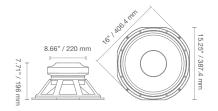


Hz \* Half space response measured in a 975 litre sealed box

PREDICTED BASS RESPONSE



\*\* Normalised bass response in 175 litre tuned to 35 Hz



#### ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15" / 381 mm
Impedance	4 /8 /16 Ω
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
Peak Displacement Volume of Cone Vd	1.01 litres
Magnet Weight	145 oz
Magnetic Gap Depth	0.43" / 11 mm
Flux Density	1.1 Tesla
Coil Winding Height	1.18" / 30 mm
Voice Coil Diameter	4.0" / 101.6 mm

### MOUNTING / SHIPPING INFORMATION

	MMATION
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
Fixing Holes	4x 0.281" diam on 15.5 PCD / 8 x 0.281 diam on 14.56 PCD 4x 7.1 mm diam on 393.7 PCD / 8x 7.1 diam on 370 PCD
Depth	7.71" / 196 mm
Weight	28 lb / 12.7 kg
Recommended Enclosure Volume	2.47 - 4.41 cu ft / 70 - 125 litres
Shipping Weight	30.45 lb / 13.8 kg
Packing Carton Dimensions	415 x 415 x 250 mm

# THE PROFESSIONAL SERIES **COLOSSUS PRIME**



- · 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.

**| COLOSSUS PRIME 15XS** 

## THIELE SMALL PARAMETERS

FS Hz	36.3 Hz
RE Ohms	5.2 Ω
Qms	7.7
Qes	0.32
Qts	0.31
Vas Ltr	149.7 litres
Vd litres	1.01 litres
CMS (mm/N)	0.147 mm/N
BL T/m	22.1 T/m
Mms (grms)	133 grams
Xmax (mm)	12 mm
Sd (cm <sup>2</sup> )	855 cm <sup>2</sup>
Efficiency %	2.14%
Le (1k Hz)	1.93 mH

### MATERIALS OF CONSTRUCTION

lass Fibre
/ Outside Windings
errite Y35
Aluminium
ycellulose
Roll. Poly Cotton
(Inverted)
Terminals
d terminal on 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 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