





COLOSSUS 18XS

The Prime 18XS 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 18XS exhibits 100 dB sensitivity and can deliver bass down to 29 Hz (-6 dB) in a 200 litre ported enclosure.

ELECTRO ACOUSTIC SPECIFICATIONS Nominal Chassis Diameter Impedance 8Ω **Power Handling** 1200 w (A.E.S.) Peak Power (6dB Crest Factor) 4800 w (A.E.S.) Usable Frequency Range -6dB 35 Hz - 500 Hz Sensitivity (1 w - 1 m) 100 dB Moving Mass inc. Air Load 177 grams Minimum Impedance Zmin 6.5 Ω Effective Piston Diameter 15.43" / 392 mm Peak Displacement Volume of 1.45 litres Cone Vd Magnet Weight 120 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

FS Hz	33 Hz	
RE Ohms	5.2 Ω	
Qms	8.2	
Qes	0.404	
Qts	0.385	
Vas Ltr	257	
Vd litres	1.45	
CMS (mm/N)	0.124	
BL T/m	22.4	
Mms (grms)	188	
Xmax (mm)	12	
Sd (cm ²)	1210	
Efficiency %	2.2	
Le (1k Hz)	1.5 mH	

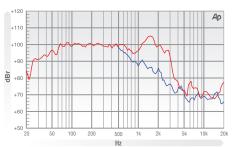
Former Material	Glass Fibre
Voice Coil	Copper 'sandwich' inside outside windings
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Straight polycellulose Ribbed Cone
Surround / Edge Termination	Polyvinyl Damped Multi Roll, Poly Cotton
Dust Dome	Solid Paper (Inverted)
Connectors	Push-button Spring Terminals
Polarity	Positive Voltage at Red Terminal Causes Forward Motion of Cone

MOUNTING / SHIPPING INFORMATION		
Overall Diameter	19.1" / 485 mm	
Width Across Flats	18" / 457 mm	
Flange Height	0.465" / 11.8 mm	
Baffle Hole Diameter F/M	16.53" / 420 mm	
Baffle Hole Diameter R/M	16.33" / 414 mm	
Gasket Supplied	Front & Rear	
Fixing Holes	8x 0.275" diam on 18.425 PCD / 8x 0.275 diam on 17.25 PCD 8x 7 mm diam on 468 PCD / 8x 7 diam on 438.15 PCD	
Depth	8.50" / 216 mm	
Weight	33.75 lb / 15.3 kg	
Recommended Enclosure Volume	4.41 -1 4.12 cu ft / 125 - 400 litres	
Shipping Weight	37.45 lb / 17 kg	
Packing Carton Dimensions	250 x 520 x 520 mm	

Please enquire about alternative impedances.

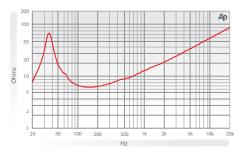
- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 30 Hz and 300 Hz. Driver mounted in free air, test signal applied at rated power for two hours.
- Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.

FREQUENCY RESPONSE DATA*



* Half space response measured in a 975 litre sealed box

IMPEDANCE



PREDICTED BASS RESPONSE

