# COLOSSUS 15B-600



### ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15"
Impedance	8,4 Ω
Power Handling	600 (A.E.S.)
Usable Frequency Range -6dB	40 Hz - 3 kHz
Sensitivity 1 w - 1m	99 dB
Moving Mass inc. Air Load	103 grams
Minimum Impedance Zmin	7.5 Ω
Effective Piston Diameter	13.03" / 331 mm
Peak Displacement Volume	0.98 litres
of Cone Vd	
Magnet Weight	120 oz
Magnetic Gap Depth	0.43" / 11 mm
Flux Density	1.04 Tesla
Coil Winding Height	0.75" / 19 mm
Voice Coil Length	95 ft / 29 m
Voice Coil Diameter	4.0" / 101.6 mm

## THIELE SMALL PARAMETERS

FS Hz	42 Hz
RE Ohms	6 Ω
Qms	4.82
Qes	0.295
Qts	0.278
Vas Ltr	139
Vd Litres	0.98
CMS (mm/N)	0.139
BL T/m	23.6
Mms (grms)	103
Xmax mm	5.7
Sd cm2	0.086 m2
Efficiency %	3.51

#### MOUNTING / SHIPPING INFORMATION

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Overall Diameter	16" / 406.4 mm
Width Across Flats	15.25" / 387 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	13.85" / 352 mm
Baffle Hole Diameter R/M	14" / 355.6 mm
Gasket Supplied	Front & Rear
Fixing Holes	4 x 0.281" diam on 15.5
	PCD/8 x 0.281 diam on
	14.56 PCD 4 x 7.1 mm
	diam on 393.7 PCD/8 x 7
	diam on 370 PCD
Depth	7.20" / 183 mm
Weight	27.28 lb / 12.4 kg
Recommended Enclosure	2.47-4.41 cu ft /
Volume	70-125litres
Volume Displaced by Driver	0.219 cu ft/6.2 litres
Shipping Weight	30.58 lb/13.9 kg
Packing Carton Dimensions	415 x 415 x 250 mm

# MATERIALS OF CONSTRUCTION

Former Material	Fibreglass
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Curvilinear Polycellulo
Surround / Edge Termination	Polyvinyl Damped Db
	Half Roll Linen
Dust Dome	Solid Paper
Connectors	Push-button Spring
	Terminals
Polarity	Positive Voltage at Re
	Terminal Causes Forv
	Motion of Cone

#### **APPLICATION NOTES:**

FREQUENCY RESPONSE DATA:

The Colossus 15B-600 is intended for use in high-power two-way ported enclosures and as a highoutput bass driver in multiway systems. It features a 4-inch voice coil immersed in a symmetric magnetic field yielding increased linearity and lower distortion at high excursion levels. 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 high output levels. The driver handles 600 Watts (A.E.S) continuous and can cope with peaks in excess of 2400 Watts. This is due to advanced thermal management in the form of vented die-cast chassis and motor system coupled to a large vaned heatsink mounted on the rear of the unit. These measures effectively remove heat from the voice coil, resulting in extremely low-power compression. The Colossus 15B-600 exhibits an average sensitivity of 99 dB and can deliver bass down to 40 Hz (-6 dB) in a 125 litre ported enclosure.

 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 al rated power for two hours.



COMPUTER PREDICTED BASS RESPONSE:

Please inquire about alternative impedances.

e input on an open baffel of tensions 2.5 x 3.7 metres with a srophone distance of 1 metre. Fundamental 10 % Power Fundamental 45° off-axis 1 W Fundamental 45° off-axis 1 W 2nd Harmonic 10 % Power



