## **COLOSSUS 18XB**

 $\bigcirc$ 



## ELECTRO ACOUSTIC SPECIFICATION

and the second se	and the second se
Nominal Chassis Diameter	18"
Impedance	8Ω
EIA 426A Power	800 w
Program Power	1600
Peak Power 6dB Crest Factor	3200
Frequency Range -3dB	35 Hz - 1.0 KHz
Sensitivity 1w - 1m	99 dB
Magnet Weight	126 oz
Magnetic Gap Depth	0.39" / 10 mm
Coil Diameter	4.0" / 102 mm
Flux Density (Tesla)	1.2
Coil Winding Length	0.90" / 23 mm
Coil Material	Copper
Former Material	Fibreglass

### THIELE SMALL PARAMETE

and the second se	AND ADDRESS OF TAXABLE PARTY IN DESCRIPTION OF
FS Hz	33 Hz
RE Ohms	6.5 Ω
Qms	5.77
Qes	0.358
Qts	0.337
Vas Ltr	236
Vd	0.803
CMS (mm/N)	0.13
BL T/m	25.9
Mms grms	173
Xmax mm	7.5
Sd cm2	1131
Efficiency %	2.375

# MOUNTING / SHIPPING INFORMATION 19.09" / 485 mm 19.09" / 457 mm 16.53" / 420 mm 0.46" / 11.8 mm 8 x 7mm dia on 468 PCD, 8 x 7mm dia on 488 PCD 8 x 0.275" dia on 18.425 PCD / 8 x 0.275 dia on 17.25 PCD

Overall Diameter
Width Across Flats
Baffle Hole (Front Mount)
Flange Height
Mounting Hole Diameter &
Quantity

## Overall Height Nett Weight n Di

MATERIALS OF CONSTRUCTION		
Former Material Voice Coil Magnet Material Chassis Cone Surround / Edge Termination Dust Dome Connectors	Fibreglass Copper Ferrite Die-cast Aluminium Paper Polyvinyl Damped Fabric Paper Push-button Spring Terminals	
Polarity	Positive Voltage at Red Terminal causes forward motion of cone	

17.25 PCD 8.07" / 205 mm

16.2 kg 250 x 520 x 520 mm

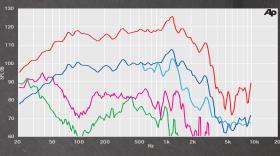
14.2 kg

Please inquire 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

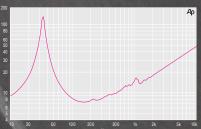
## **APPLICATION NOTES:**

The Colossus 18XB is intended for use as a high-output sub-bass driver either singly or in multiway systems. The unit features a 4-inch voice coil immersed in a symmetric magnetic field and centralized by using two suspensions in a dual arrangement to maintain ultra linearity and stability at high excursions. The heavily ribbed straight-sided paper cone membrane is reinforced with highstrength composite fibres to resist deformation under extreme loads. The driver handles 800Watts (EIA) continuous and can cope with peaks in excess of 3200 Watts. This is due to advanced thermal management in the form of a vented die-cast chassis and motor system using an internal heatsink 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 18XB is designed for use in 100 to 250 litre ported enclosures.





### IMPEDANCE:



250L fb 40 Hz 100L fb 50 Hz 180L fb 45 Hz

COMPUTER PREDICTED BASS RESPONSE:

# ⅧⅢ⊮ 8.15" 205 mm

9.21" \_\_\_\_ 234 mm

