Termination

COLOSSUS 12MBH PRELIMINARY SPECIFICATIONS

BASS / MID RANGE DRIVER

12" / 304.8 mm

CHASSIS DIAMETER

45 Hz - 4 kHz

FREQUENCY RESPONSE

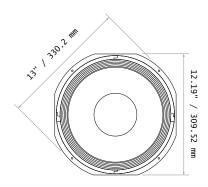
3" / 76.2 mm

98 dB

6 mm Xmax

- Aluminum Heats sink directly attached to rear magnet plate for added heat
- Optimised non-inductive motor system efficiently controls magnetic flux and reduces third-harmonic and intermodulation distortion.
- Undistorted low frequencies at high output levels.
- Fast and dynamic driver producing punchy bass.
- Extended frequency range up to 4 kHz.
- Aluminium demodulation and Copper shorting rings.
- Optimised cone pulp offering increased strength, durability and performance.
- Performs best in ported enclosures of 30-50 Litres.
- 3-Inch Inside / Outside windings aluminium voice coil.

5.51" / 140 mm /179 7.04"



GENERAL SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Nominal Impedance (1)	8 Ohm
Minimum Impedance Zmin	6.6 Ω
AES Power Handling (2)	550 W (A.E.S.)
Program Power	1100 W
Peak Power (6dB Crest Factor)	2200 W
Frequency Range (-6dB)	45 Hz - 4 kHz
Sensitivity (1W/ 1m)	98 dB
Magnet Material	Ferrite
Magnet Weight	93 oz
Magnetic Gap Depth	0.35" / 9.00 mm
Flux Density	1.16 Tesla
Former Material	Glass Fibre
Voice Coil Material	Aluminium - Inside/ Ouside
Coil Winding Height	0.71" / 18.00 mm
Voice Coil Diameter	3" / 76.27 mm
Cone/ Dust Dome Material	Straight Fibre Loaded Polycellulose / Paper
Surround / Edge	Multi Roll Polyvinyl

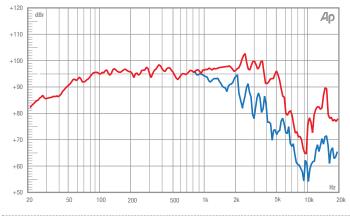
TECHNICAL & THIELE SMALL PARAMETERS

Fs	48 Hz
Re	5.5 Ω
Qms	7.200
Qes	0.351
Qts	0.335
Vas	75.00 Litres
Vd	0.318 Litres
Cms	0.19 mm/N
ВІ	17.5 T/m
Mms	57 g
Xmax	6 mm
Sd	530 cm ²
Efficiency	2.36 %
Le (1k Hz)	1.54 mH
EBP	136.75 Hz
Effective Piston Diameter	10.24" / 260.10 mm
Rec. Enclosure Volume	30 - 50 Litres

MOUNTING / SHIPPING INFORMATION

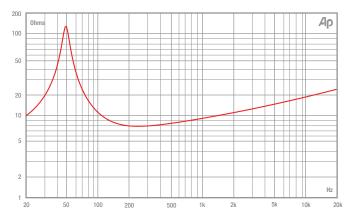
Overall Diameter	13" / 330.2 mm
Width Across Flats	12.19" / 309.62 mm
Depth	5.51" / 140.00 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	11.03" / 280.16 mm
Baffle Hole Diameter R/M	11.25" / 285.75 mm
Magnet Diameter	179 mm
Chassis Material	Die-cast Aluminium
Gasket Supplied	Front & Rear
Outer Fixing Holes	4x ø 5.5 mm on 317.5 mm PCD
Inner Fixing Holes	N/A
Inner Fixing Holes Connectors (4)	N/A Push-button Spring Terminals
	Push-button Spring
Connectors (4)	Push-button Spring Terminals
Connectors (4) Weight	Push-button Spring Terminals 22.49 lb / 10.20 Kg

FREQUENCY RESPONSE DATA (3)



Damped Fabric

IMPEDANCE



- Half space response measured in a 975 Litre sealed box. Blue line = fundamental 45° off-axis. 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.
- (4) Positive voltage at red terminal causes forward motion of cone

A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of XX Hz and XX Hz. Driver mounted in free air, test signal applied at rated power for two hours.