

BM165.1

6.5" - Bass Mid Driver

Studio Range

Applications:Bass Mid in Compact Studio Monitors

- 100 Watt (AES)
- Doped HIPS Cone
- Double Low Loss Suspensions
- Diecast Aluminium Vented Chassis
- Extended Pole, Symmetrical Field Magnet Design
- Net Weight: 1.95 Kgs







The BM165.1 (6.5") is a critically doped HIPS cone unit developed for bass/midrange applications that require minimal colouration and low distortion over a wide frequency range. It uses a symmetrical field magnet system for large linear excursion capability with low distortion and mirrored double rear suspensions ensuring transient stability at high drive levels. The Thiele-Small parameters are optimised for relatively small enclosures to give a bass performance that complements the extended midband enabling optimum 2-way systems. The diecast aluminium chassis is vented below the suspensions to increase cooling airflow to the voice coil and magnet.

Specifications

Nominal Diameter
Power Rating
Sensitivity (1w / 1m)
Frequency Range
Nominal Impedance
Voice Coil Diameter
Voice Coil Material
Suspension
Cone Material
Surround
Maximum Excursion
Magnet
Magnetic Assembly Weight
Volume Displaced
Connection
Chassis

165 mm 100 Watt (AES) 88 dB 50 - 3000Hz 8 ohms 38 mm Copper Mirrored Double Coated Black HIPS Low Loss Rubber 24mm (peak to peak) Ferrite 1.55 Kgs 0.7 Litres 5mm Solder Terminals Diecast Alu Vented

Thiele-Small Parameters

Fs	30 Hz		
Re	5.5 Ohms		
Qms	4.12		
Qes	0.26		
Qts	0.24		
Cms	1.23 mm/N		
Mms	25 g		
BI	9.8 N/A		
Vas	40.75 Litres		
Sd	153.94 cm2		
Vd	96.98 cm3		
Le	1.20 mH		
Xmax	±6.3 mm		

*Thiele - Small Parameters taken after a 2 hour preconditioning period.

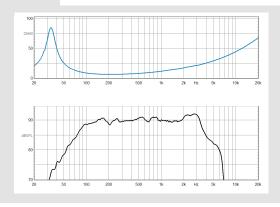
Mounting Information

Overall Diameter Fixing Bolt Diameter Fixing Holes Front Mount Cut-out Diameter Suggested Rebate Depth Depth Below Front Flange Total Depth Weight	189 mm 178.5 mm 4 x M5 160 mm 6 mm 84 mm 90 mm
Weight	1.95 Kgs

Suggested Enclosures

Volume in Litres	12	20	25
Vent diameter in Cm	3.2	3.2	3.2
Vent length in Cm	6	5	5
System Q	7	7	7
-3dB Freq in Hz	50	40	35

Response Curve



Dimensions

