

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	165 mm
Power Rating	100 Watt (AES)
Sensitivity (1w / 1m)	88 dB
Frequency Range	50 - 3000Hz
Nominal Impedance	8 ohms
Voice Coil Diameter	38 mm
Voice Coil Material	Copper
Suspension	Mirrored Double
Cone Material	Coated Black HIPS
Surround	Low Loss Rubber
Maximum Excursion	24mm (peak to peak)
Magnet	Ferrite
Magnetic Assembly Weight	1.55 Kgs
Volume Displaced	0.7 Litres
Connection	5mm Solder Terminals
Chassis	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
Bl	9.8 N/A
Vas	40.75 Litres
Sd	153.94 cm ²
Vd	96.98 cm ³
Le	1.20 mH
Xmax	±6.3 mm

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

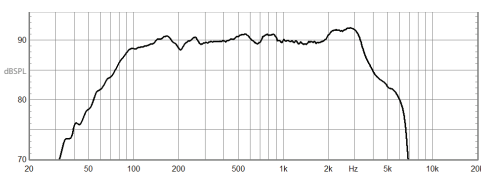
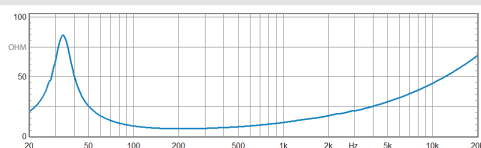
Mounting Information

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

