

## 6.5" - Bass Mid Driver

## Studio Range

### Applications: Compact 2-Way Studio Monitors

- 100 Watt (AES)
- Doped Paper Pulp Cone
- Low Damping Rubber Surround
- Double Suspensions
- Extended Pole Symmetrical Field Magnet
- Net Weight: 1.95 Kgs



The BM165.4 (6.5") is a critically doped paper pulp 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)
Frequency Range	50 - 3000Hz
Nominal Impedance	8 ohms
Voice Coil Diameter	38 mm
Voice Coil Height	17.5 mm
Voice Coil Layers	2
Magnet Gap Height	5.5 mm
Linear Excursion (XMax)	±6 mm
Maximum Excursion	24 mm
Volume Displacement	0.7 Litres
Connection	4.8mm Solder Terminals
Chassis	High Pressure Diecast Aluminium

#### Thiele-Small Parameters

Fs	32.5 Hz
Re	5.6 Ω
Sd	154 cm <sup>2</sup>
Qms	5.57
Qes	0.32
Qts	0.30
Cms	0.96 mm/N
Mms	25 g
Rms	0.91 kg/s
Bl	9.6 N/A
Sensitivity (1w / 1m)	89 dB
VAS	32.3 L
Le	0.65 mH

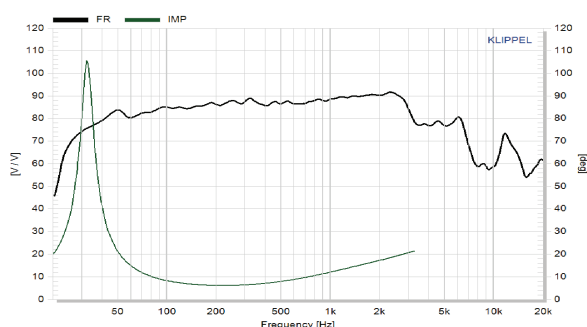
#### Mounting Information

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	10	15	20
Vent diameter in Cm	4.7	4.7	4.7
Vent length in Cm	29	15	11
System Q	0.7	0.7	0.7
-3dB Freq in Hz	55	45	40

#### Response Curve



#### Dimensions

