MOTUS

The goal of every Motus driver design is linear frequency response, low distortion and superb tonality.

After hundreds of hours of refinement each driver allows for the application of a minimal crossover to achieve your desired target response.

Every Motus driver goes through a rigorous four stage quality control process to ensure that the driver in your loudspeaker represents the best Motus has to offer.

The UH165PW1 is a state of the art underhung mid bass driver. It is equally at home as the woofer in a two way design or the midrange in a multi-way speaker.



- Underhung voice coil
- Linear frequency response
- Ultra low distortion
- FEA Optimized motor
- Pressed paper cone
- Vented pole piece
- Dual shorting rings

- Precision machined undercut pole piece
- Aerodynamic basket design
- Acoustically transparent spider
- Vented voice coil
- Symmetrical lead wire placement
- Gold plated terminals
- Die cast aluminum basket



UH165PW1 - Parameters

Thiele / Small Parameters		
Resonance Frequency	FS	33.83Hz
Mechanical Q	QMS	7.95
Electrical Q	QES	.38
Total Q Factor	QTS	.37
Force Factor	BL	7.19 Tm
Moving Mass	MMS	16.99 grams
Suspension Compliance	CMS	1302 mm/N
Radiating Diameter	Dia.	134.00 mm
Radiating Area	SD	143.03 sq. cm
Equivalent Volume	VAS	36.80 liters
Sensitivity (1W / 1M)	SPL	87.44 dB
Sensitivity (2.83V / 1M)	SPL	89.07 dB

Electrical Parameters

DC Resistance DCR 5.50 ohms Nominal Impedance NOM 6.00 ohms Voice Coil Inductance LE .36 mH

Power Handling

Long Term Power Handling* 90 watts
Short Term Power Handling* 150 watts

Enclosure Volume**

Sealed - Q.707 13.51 L (.48 cu ft) 65.30 Hz -3dB Vented - QB3 25.29 L (.89 cu ft) 38.78 Hz -3dB

Magnet and Voice Coil

 Voice Coil Diameter
 44.20 mm

 Voice Coil Winding Height
 8.00 mm

 Voice Coil Layers
 4

 Gap Height
 18.00 mm

 Linear Excursion
 ± 5.00 mm

 Max Mechanical Excursion
 ± 15.20 mm

Dimensions and Weight

Total Unit Weight 2.40 kg
Total Outside Diameter 182.00 mm
Total Depth 104.50 mm

Thiele / Small parameters measured after 24 hours break in

All specifications are subject to change without notice

^{*}IEC 268-5

^{**}Estimated volume, no added resistance

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