

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

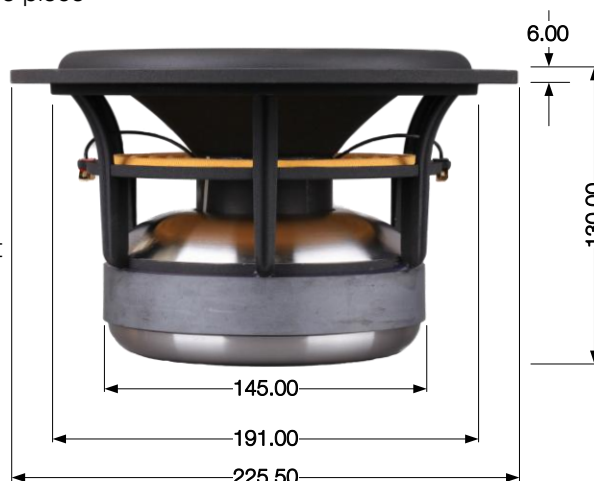
After hundreds of hours of refinement each driver allows for the application of a minimal crossover to achieve your desired target response.

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 UH205PW1 is a state of the art underhung mid bass driver. It is equally at home as the woofer in a three way design or the mid bass in a two-way speaker.



- Underhung voice coil
- Precision machined undercut pole piece
- Linear frequency response
- Aerodynamic basket design
- Ultra low distortion
- Acoustically transparent spider
- FEA Optimized motor
- Vented voice coil
- Pressed paper cone
- Symmetrical lead wire placement
- Vented pole piece
- Gold plated terminals
- Dual shorting rings
- Die cast aluminum basket



UH205PW1 - Parameters

Thiele / Small Parameters			Electrical Parameters			Magnet and Voice Coil	
Resonance Frequency	FS	26.47Hz	DC Resistance	DCR	4.94 ohms	Voice Coil Diameter	60.40 mm
Mechanical Q	QMS	8.54	Nominal Impedance	NOM	6.00 ohms	Voice Coil Winding Height	8.50 mm
Electrical Q	QES	.39	Voice Coil Inductance	LE	.39 mH	Voice Coil Layers	4
Total Q Factor	QTS	.38	Power Handling			Gap Height	25.00 mm
Force Factor	BL	8.74 Tm	Long Term Power Handling*		125 watts	Linear Excursion	± 8.00 mm
Moving Mass	MMS	36.55 grams	Short Term Power Handling*		200 watts	Max Mechanical Excursion	± 25.20 mm
Suspension Compliance	CMS	989 mm/N	Enclosure Volume**			Dimensions and Weight	
Radiating Diameter	Dia.	164.00 mm	Sealed - Q.707	24.90 L (.88 cu ft)	49.66 Hz -3dB	Total Unit Weight	5.89 kg
Radiating Area	SD	211.24 sq. cm	Vented - QB3	46.73 L (1.65 cu ft)	29.16 Hz -3dB	Total Outside Diameter	225.50 mm
Equivalent Volume	VAS	62.68 liters				Total Depth	130.00 mm
Sensitivity (1W / 1M)	SPL	86.45 dB					
Sensitivity (2.83V / 1M)	SPL	88.54 dB					

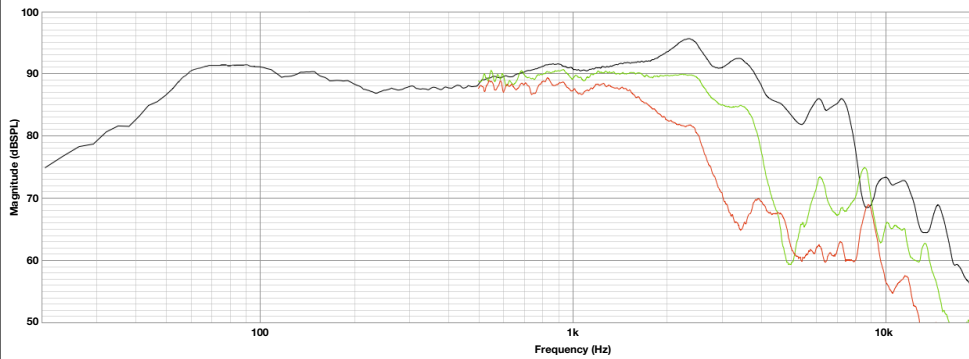
*IEC 268-5

**Estimated volume, no added resistance

Thiele / Small parameters measured after 24 hours break in

All specifications are subject to change without notice

Frequency Response (1/12 Octave Smoothing)



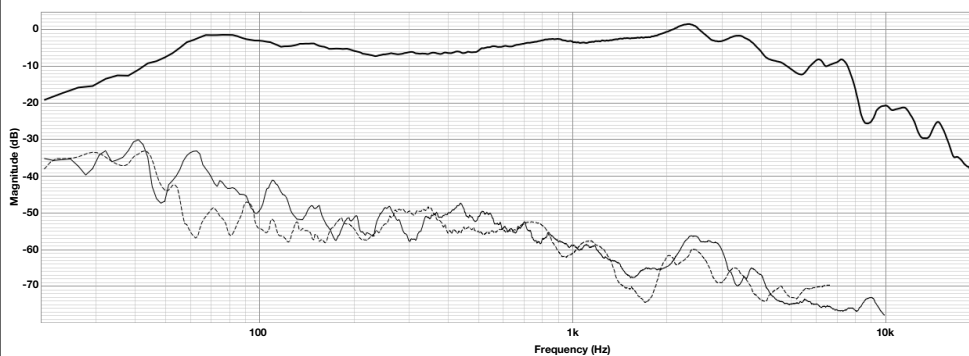
Curve Description

Black Curve On Axis SPL
Green Curve 30 deg off axis
Blue Curve 60 deg off axis

Test Conditions

Level 2.83 volts
Mic Distance 1 meter
Smoothing 1/12 Octave
Boundary IEC Baffle

Harmonic Distortion (1/12 Octave Smoothing)



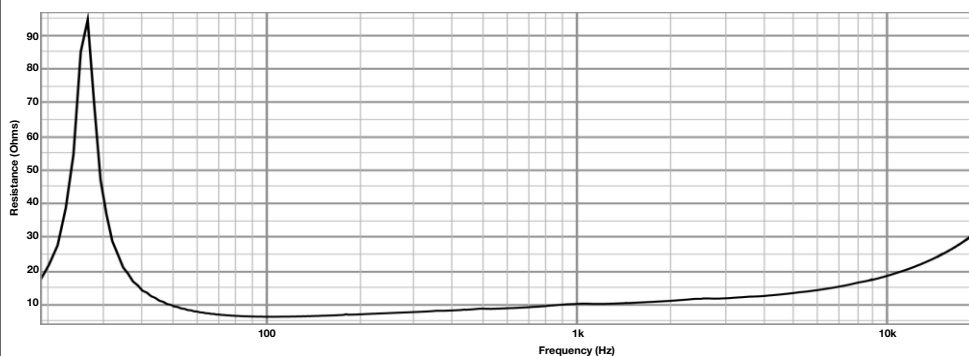
Curve Description

Black Curve On Axis
Solid Curve 2nd Harmonic
Dash Curve 3rd Harmonic

Test Conditions

Level 2.83 volts
Mic Distance 1 meter
Smoothing 1/12 Octave
Boundary IEC Baffle

Impedance



Curve Description

Black Curve Impedance

Test Conditions

Boundary Free Air