

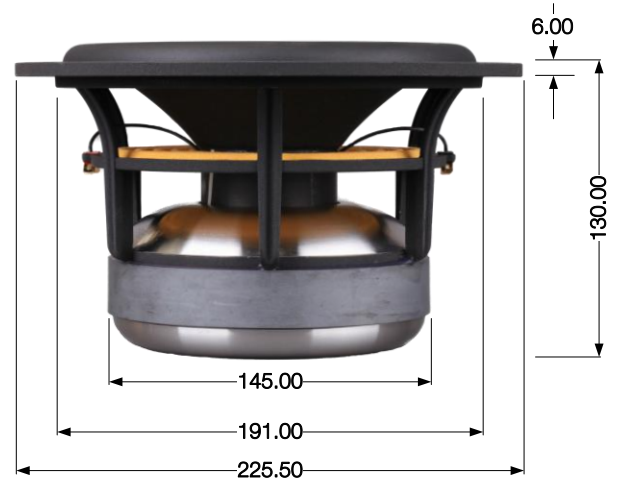
The goal of every Motus driver design is linear frequency response, low distortion and superb tonality.

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			Gap Height	25.00 mm
Force Factor	BL 8.74 Tm			Linear Excursion	± 8.00 mm
Moving Mass	MMS 36.55 grams	<b>Power Handling</b>		Max Mechanical Excursion	± 25.20 mm
Suspension Compliance	CMS 989 mm/N	Long Term Power Handling*	125 watts		
Radiating Diameter	Dia. 164.00 mm	Short Term Power Handling*	200 watts		
Radiating Area	SD 211.24 sq. cm			<b>Dimensions and Weight</b>	
Equivalent Volume	VAS 62.68 liters	<b>Enclosure Volume**</b>		Total Unit Weight	5.89 kg
Sensitivity (1W / 1M)	SPL 86.45 dB	Sealed - Q.707 24.90 L (.88 cu ft)	49.66 Hz -3dB	Total Outside Diameter	225.50 mm
Sensitivity (2.83V / 1M)	SPL 88.54 dB	Vented - QB3 46.73 L (1.65 cu ft)	29.16 Hz -3dB	Total Depth	130.00 mm

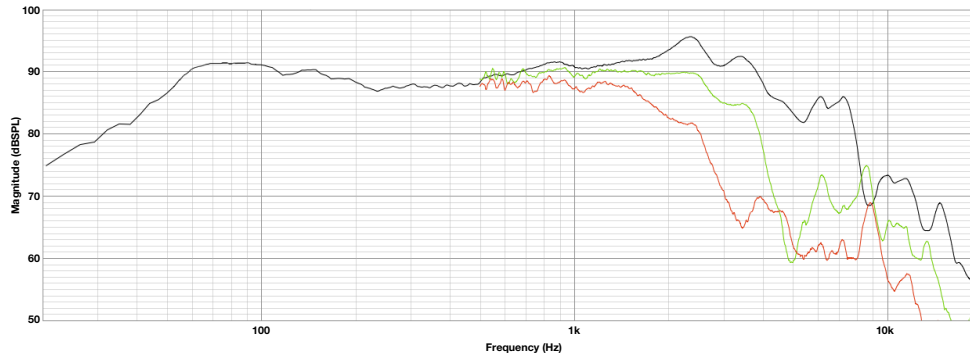
\*IEC 268-5

\*\*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)



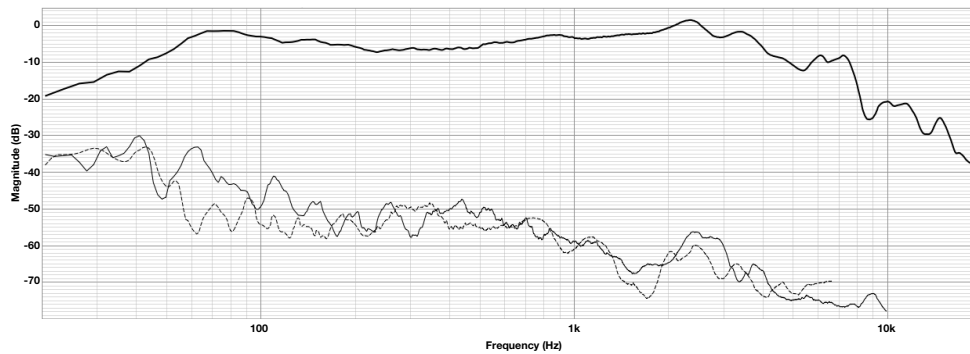
#### Curve Description

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)



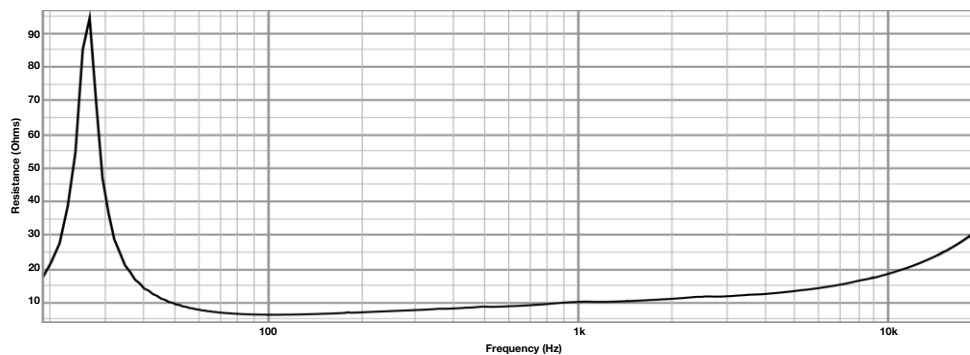
#### Curve Description

Black Curve On Axis  
Solid Curve 2<sup>nd</sup> Harmonic  
Dash Curve 3<sup>rd</sup> 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