Driver Specification Sheet

Model No:: HDS-P835025
Product Line: Peerless

Rev: 1
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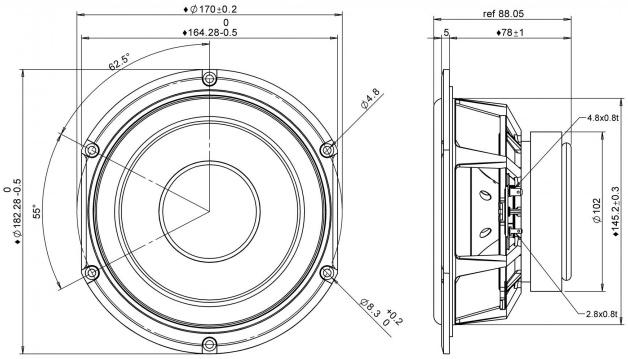
Product Description

This 6.5 inch 8 ohm driver is a member of the high performance HDS family. A powerful ferrite magnet system is coupled to a finite element analysis designed suspension system, containing both a linear spider design and a rubber surround. The motor contains an aluminium shorting ring, which reduces coil inductance, thus providing both extended frequency response performance and reduced distortion. The long-throw voice coil ensures linear high excursion performance, needed for signal clarity. The cone necks are vented so as to reduce air compression effects under high excursion conditions. The cast aluminium basket offers structural rigidity, heat sinking capacity for the motor, and additional air venting under the spider so as to again reduce air compression effects. The cone in this model is aluminium, offering a unique visual and acoustic experience.

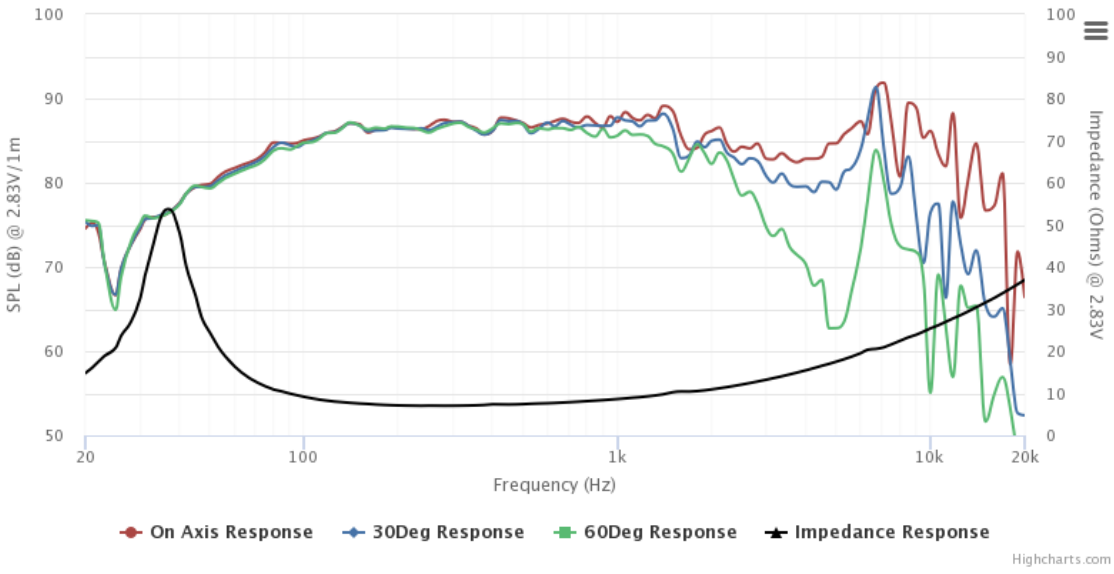
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	6.34	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	7.03	7.5%	Moving Mass	Mms	g	20.1
Voice Coil Inductance	Le	mH	0.39		Suspension Compliance	Cms	um/N	860.5
Resonant Frequency	Fs	Hz	38.24	15%	Effective Cone diameter	D	cm	13.5
Mechanical Q Factor	Qms		3.32		Effective Piston Area	Sd	cm^2	143.1
Electrical Q Factor	Qes	0.42			Effective Volume	Vas	L	24.76
Total Q Factor	Qts		0.37		Motor Force Factor	BL	Tm	8.58
Ratio Fs/Qts	F	Fs/Qts	103.36		Motor Efficiency Factor	ß	(T*M^2)/Ohms	11.6
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	86.64	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	86.1	+/- 1.0db	Voice coil inner diameter	VCd	mm	32.41
Gap Height	Gh	mm	6		Rated Noise Power	P	W	55
Maximum Linear Excursion	Xmax	mm	5.4		Test Spectrum Bandwidth	20Hz - 3kHz		
Ferrofluid Type	FF				Driver Size	Inch	6 in	
Driver Mass	Kg	1.58						

Frequency and Impedance Response



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