

Model Number: HDS-P835026 Revision: Rev 2_0
Product Line: Peerless Gold Date: 1-Sep-09

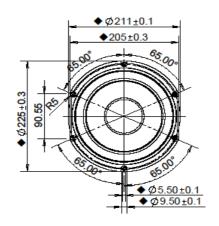


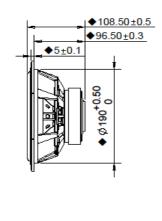
Product Description:

This 8 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 2D Drawing:





Specifications:

DC Resistance	R _{evc}	Ω	5.5	5.0%	Energy Bandwidth Product	EBP	(1/Q _{es})·f _s	59
Minimum Impedance	Z_{min}	Ω	6.2	7.5%	Moving Mass	M_{ms}	g	38.57
Voice Coil Inductance	L _e	mH	0.57		Suspension Compliance	C_{ms}	um/N	869.9
Resonant Frequency	fs	Hz	27	15.0%	Effective Cone Diameter	D	cm	17.2
Mechanical Q Factor	Q_{ms}	-	4.3		Effective Piston Area	S_D	cm ²	232.4
Electrical Q Factor	Q _{es}	-	0.46		Equivalent Volume	V _{as}	L	65.96
Total Q Factor	Q_{ts}	-	0.41		Motor Force Factor	BL	T·m	8.96
Ratio f _s / Q _{ts}	F	f_s / Q_{ts}	65		Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	14.57
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	86.8	+/-1.0 ¹	Voice Coil Former Material	VC_{fm}	-	ASV
Sensitivity @ 1W/1m	1W/1m	dB	86.6	+/-1.0 ¹	Voice Coil Inner Diameter	VC _d	mm	38.4
					Gap Height	Gh	mm	8.0
Rated Noise Power (IEC 2685 18.1)	P	W	75		Maximum Linear Excursion	X_{max}	mm	6.02
Test Spectrum Bandwidth	20Hz - 3kHz		12 dB/Oct		Ferrofluid Type	FF		N/A
					Transducer Size	-	inch	8
Piston Band Sensitivity Tolerance					Transducer Mass	-	kg	2.336

Frequency and Impedance Response:

