

Model No: HDS-P830869 Product Line: Peerless

## **Transducer Specification Sheet**

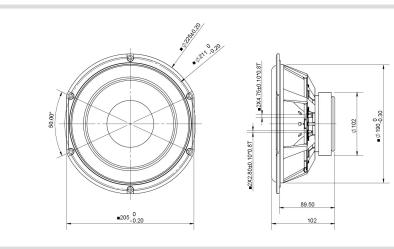
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# **Product Description**

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 nomex based, offering a unique visual and acoustic experience.



### **Mechanical Drawing**



#### Specifications

Minimum Impedance Zmin Ohms 6.83 7.5% Moving Mass Mms g   Voice Coil Inductance Le mH 0.63 Suspension Compliance Cms um/N   Resonant Frequency Fs Hz 29.57 15% Effective Cone diameter D cm   Mechanical Q Factor Qms 4.4 Effective Piston Area Sd cm^2   Electrical Q Factor Qes 0.31 Effective Volume Vas L   Total Q Factor Qts 0.31 Motor Force Factor BL T   Ratio Fs/Qts F Fs/Qts 96.63 Motor Efficiency Factor B (T*M^2)   Half Space Sensitivity @2.83V db@2.83V/1M dB 89.26 +/- 1.0db Voice coil Inner diameter VCd   Half Space Sensitivity @1W/1M Gh mm 6 Rated PoisePower P W	
Resonant Frequency     Fs     Hz     29.57     15%     Effective Cone diameter     D     cm       Mechanical Q Factor     Qms     4.4     Effective Piston Area     Sd     cm^2       Electrical Q Factor     Qes     0.33     Effective Volume     Vas     L       Total Q Factor     Qts     0.31     Motor Force Factor     BL     Tm       Ratio Fs/Qts     F     Fs/Qts     96.63     Motor Efficiency Factor     & (T*M*2)       Half Space Sensitivity @2.83V     db@2.83V/1M     dB     89.26     +/- 1.0db     Voice coil former Material     VCfm	2 227 87.41
Mechanical Q Factor Qms 4.4 Effective Piston Area Sd cm^2   Electrical Q Factor Qes 0.33 Effective Piston Area Sd cm^2   Total Q Factor Qts 0.31 Motor Force Factor BL Tm   Ratio Fs/Qts F Fs/Qts 96.63 Motor Efficiency Factor ß (TM^2)   Half Space Sensitivity @1W/1M db@1W/1M dB 88.6 +/- 1.0db Voice coil former Material VCfm	87.41
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	ASV
Gap Height Gh mm 6 Rated Noise Power P W	32.41
	60
Maximum Linear Excursion     Xmax     mm     5.5     Test Spectrum Bandwidth     30Hz - 2kHz	
Ferrofluid Type FF Transducer Size Inch 8 in	
Transducer Mass Kg 1.74	

### **Frequency and Impedance Response**

