

**Transducer Specification Sheet** 

Revision: Rev 2 Date: 16-Jul-14

Product Line: Peerless Gold

Peerless

Product Description:

This 2 inch 4 ohm member of the PLS family sets a high standard, for compact full range drivers intended for applications such as television soundbars and compact music systems. Design features in this family include a damped plastic basket with venting under the spider to aid cooling of the motor, a neodymium magnet motor with copper cap to lower coil inductance, providing low distortion at low frequencies and extended high frequency response. A black anodized aluminium cone is employed on the driver, along with a black anodized aluminium dust cap coupled directly to the voice coil. Additionally, the cones come equipped with special-designed large roll rubber surrounds, which allow for a dynamic linear response to high excursion input signals.



247

1.4

661

4.20

13.9

0.178

2.79

2.16

ASV

25.73

3.00

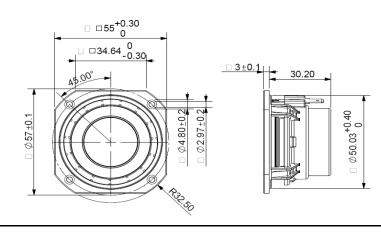
1.65

N/A

2

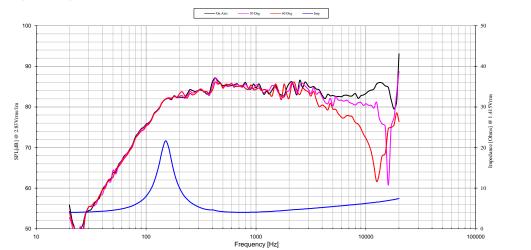
0.14

Mechanical 2D Drawing:



## Specifications: DC Resistance Ω 3.6 5.0% Energy Bandwidth Product EBP (1/Q<sub>es</sub>)·f<sub>s</sub> Minimum Impedance Z<sub>min</sub> L<sub>e</sub> Ω 4.0 7.5% Moving Mass Mms g Voice Coil Inductance Suspension Compliance Cms mН 0.03 um/N Resonant Frequency fs 166 15.0% Effective Cone Diameter D cm Hz Q<sub>ms</sub> Q<sub>es</sub> Mechanical Q Factor -3.85 Effective Piston Area $S_D$ $\rm cm^2$ Electrical Q Factor 0.67 Equivalent Volume ۷... L Total Q Factor Qts 0.57 . Motor Force Factor BL T∙m Ratio fs / Qts F fs / Qts 290 Motor Efficiency Factor β $(T \cdot m^2)/\Omega$ Half Space Sensitivity @ 2.83V dB@2.83V/1m dB 85.3 +/-1.0 <sup>1</sup> Voice Coil Former Material VCfrr Sensitivity @ 1W/1m 1W/1m dB 81.8 +/-1.0 1 Voice Coil Inner Diameter $VC_d$ mm Gap Height Gh mm Rated Noise Power (IEC 2685 18.1) Р w 25 um Linear Excursion mm X<sub>max</sub> FF 150Hz - 20kHz 12 dB/Oct Ferrofluid Type Test Spectrum Bandwidth inch Transducer Size Transducer Mass 1 - Piston Band Sensitivity Tolerance kg

## Frequency and Impedance Response:



F088-0713A

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