

Model No.: PLS-P830983

Rev: 1

Product Line: Peerless

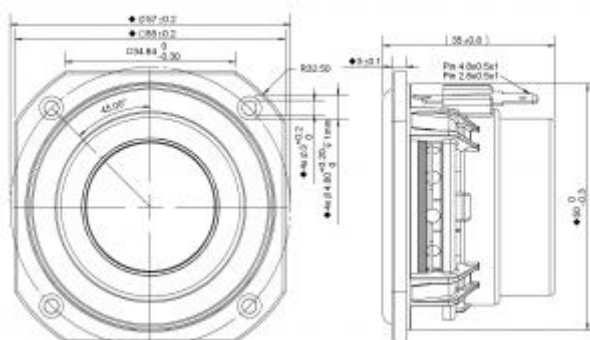
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## Product Description

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.



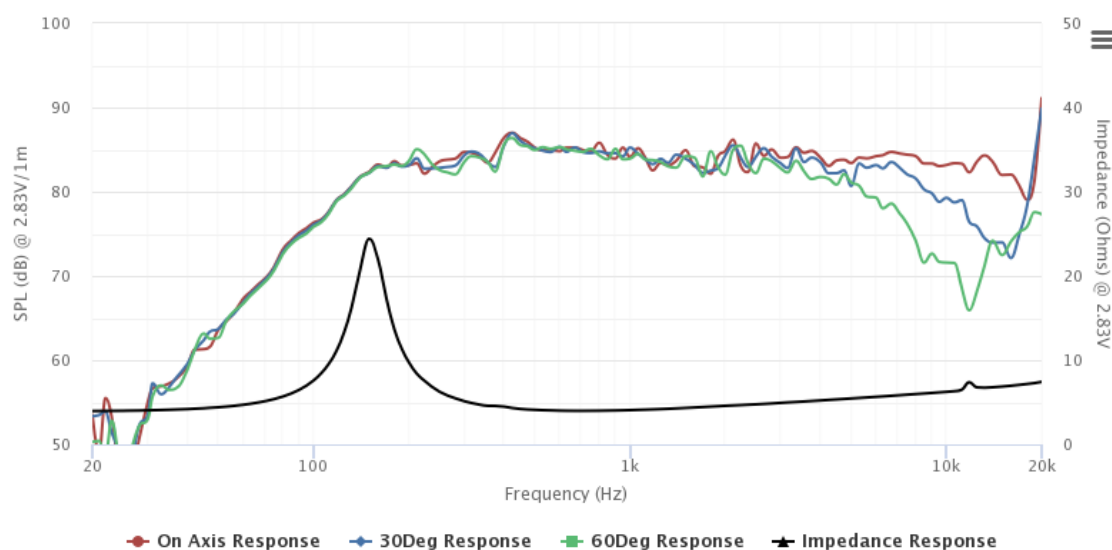
## Mechanical Drawing



## Specifications

|                               |             |        |        |           |                            |      |               |
|-------------------------------|-------------|--------|--------|-----------|----------------------------|------|---------------|
| DC Resistance                 | Revc        | Ohms   | 3.6    | 5.0%      | Energy Bandwidth Product   | EBP  | (1/Qes)*fs    |
| Minimum Impedance             | Zmin        | Ohms   | 3.99   | 7.5%      | Moving Mass                | Mms  | g             |
| Voice Coil Inductance         | Le          | mH     | 0.03   |           | Suspension Compliance      | Cms  | um/N          |
| Resonant Frequency            | Fs          | Hz     | 175.63 | 15%       | Effective Cone diameter    | D    | cm            |
| Mechanical Q Factor           | Qms         |        | 5.63   |           | Effective Piston Area      | Sd   | cm^2          |
| Electrical Q Factor           | Qes         | 0.81   |        |           | Effective Volume           | Vas  | L             |
| Total Q Factor                | Qts         |        | 0.71   |           | Motor Force Factor         | BL   | Tm            |
| Ratio Fs/Qts                  | F           | Fs/Qts | 247.37 |           | Motor Efficiency Factor    | β    | (T*M^2)/Ohms  |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 84.99  | +/- 1.0db | Voice coil former Material | VCfm | ASV           |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 82     | +/- 1.0db | Voice coil inner diameter  | VCd  | mm            |
| Gap Height                    | Gh          | mm     | 3      |           | Rated Noise Power          | P    | W             |
| Maximum Linear Excursion      | Xmax        | mm     | 1.7    |           | Test Spectrum Bandwidth    |      | 150Hz - 20kHz |
| Ferrofluid Type               | FF          |        |        |           | Driver Size                | Inch | 2 in          |
| Driver Mass                   | Kg          | 0.14   |        |           |                            |      |               |

## Frequency and Impedance Response



Highcharts.com