

Model No: PLS-75F25AL04-08  
Product Line: Tymphany

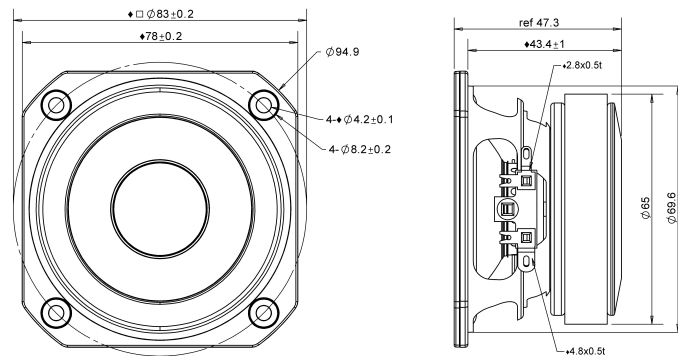
Rev: 3  
Last Update: 2016-07-06 00:30:30

## Product Description

This 3 inch 8 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 stiff steel basket with venting under the spider to aid cooling of the motor, a ferrite 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, 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 at high excursion.



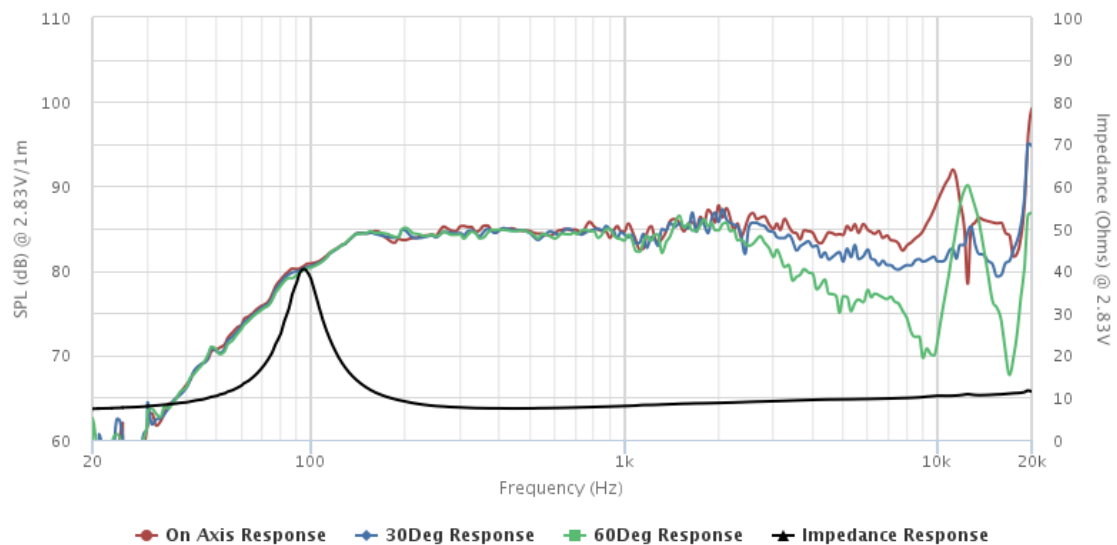
## Mechanical Drawing



## Specifications

|                               |             |        |        |           |                            |             |              |
|-------------------------------|-------------|--------|--------|-----------|----------------------------|-------------|--------------|
| DC Resistance                 | Revc        | Ohms   | 6.22   | 5.0%      | Energy Bandwidth Product   | EBP         | (1/Qes)*fs   |
| Minimum Impedance             | Zmin        | Ohms   | 7.42   | 7.5%      | Moving Mass                | Mms         | g            |
| Voice Coil Inductance         | Le          | mH     | 0.04   |           | Suspension Compliance      | Cms         | um/N         |
| Resonant Frequency            | Fs          | Hz     | 106.89 | 15%       | Effective Cone diameter    | D           | cm           |
| Mechanical Q Factor           | Qms         |        | 5.2    |           | Effective Piston Area      | Sd          | cm^2         |
| Electrical Q Factor           | Qes         | 0.75   |        |           | Effective Volume           | Vas         | L            |
| Total Q Factor                | Qts         |        | 0.66   |           | Motor Force Factor         | BL          | Tm           |
| Ratio Fs/Qts                  | F           | Fs/Qts | 162.45 |           | Motor Efficiency Factor    | β           | (T*M^2)/Ohms |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 84.87  | +/- 1.0db | Voice coil former Material | VCfm        | ASV          |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 84.5   | +/- 1.0db | Voice coil inner diameter  | VCd         | mm           |
| Gap Height                    | Gh          | mm     | 4      |           | Rated Noise Power          | P           | W            |
| Maximum Linear Excursion      | Xmax        | mm     | 2.1    |           | Test Spectrum Bandwidth    | 100Hz~20KHz |              |
| Ferrofluid Type               | FF          |        |        |           | Driver Size                | Inch        | 3 in         |
| Driver Mass                   | Kg          | 0.38   |        |           |                            |             |              |

## Frequency and Impedance Response



Highcharts.com