

Model No: SDF-375F75PR01-04  
 Product Line:

Rev 1  
 Last Update: 2018-05-18 08:52:26

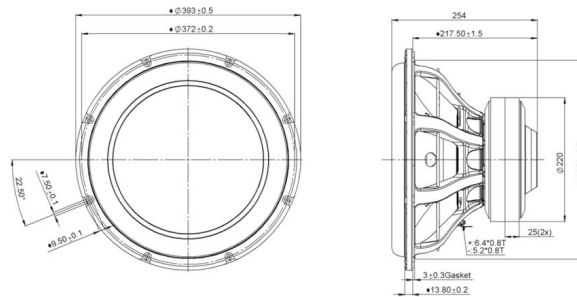
## Product Description

This 15inch 4ohm member of the SDF product family has all the design features suitable for a high performance, high excursion subwoofer. The motor features a strong ferrite magnet with bump T yoke, supporting high excursion, and aluminium shorting rings and pole extenders, lowering and linearizing the inductance of the overhung voice coil. The paper cone is vented under the dust cap, to reduce air compression. The suspension system features a low-creep rubber surround, and a optimized spider, ensuring long-term reliability under high power conditions. The product also features a upgraded die cast basket.

NOTE THIS DRIVER IS NOT APPROVED AND/OR IS NOT IN MASS PRODUCTION YET.  
 AS SUCH IT MAY BE SUBJECT TO CHANGE.  
 SPEC IS ONLY FOR INFORMATION.  
 PLEASE CHECK STATUS WITH THE ENGINEER



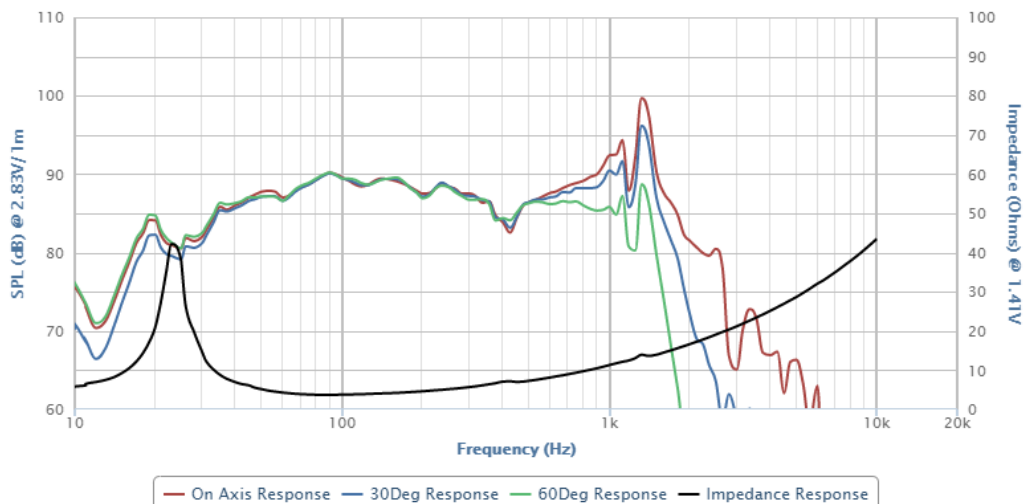
## Mechanical Drawing



## Specifications

|                               |             |        |       |           |                            |      |              |        |
|-------------------------------|-------------|--------|-------|-----------|----------------------------|------|--------------|--------|
| DC Resistance                 | Revc        | Ohms   | 2.86  | 5.0%      | Energy Bandwidth Product   | EBP  | (1/Qes)*fs   | 60.37  |
| Minimum Impedance             | Zmin        | Ohms   | 3.73  | 7.5%      | Moving Mass                | Mms  | g            | 405.5  |
| Voice Coil Inductance         | Le          | mH     | 1.21  |           | Suspension Compliance      | Cms  | um/N         | 93     |
| Resonant Frequency            | Fs          | Hz     | 25.9  | 15%       | Effective Cone diameter    | D    | cm           | 31.34  |
| Mechanical Q Factor           | Qms         |        | 9.56  |           | Effective Piston Area      | Sd   | cm^2         | 771.41 |
| Electrical Q Factor           | Qes         |        | 0.43  |           | Effective Volume           | Vas  | L            | 78.58  |
| Total Q Factor                | Qts         |        | 0.41  |           | Motor Force Factor         | BL   | Tm           | 20.96  |
| Ratio Fs/Qts                  | F           | Fs/Qts | 63.17 |           | Motor Efficiency Factor    | β    | (T*M^2)/Ohms | 153.61 |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 89.76 | +/- 1.0db | Voice coil former Material | VCfm |              | TIL    |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 86.45 | +/- 1.0db | Voice coil inner diameter  | VCd  | mm           | 75.55  |
| Gap Height                    | Gh          | mm     | 18    |           | Rated Noise Power          | P    | W            | 300    |
| Maximum Linear Excursion      | Xmax        | mm     | 18    |           | Test Spectrum Bandwidth    |      | 40-3K Hz     |        |
| Ferrofluid Type               | FF          |        |       |           | Transducer Size            | Inch | 15           |        |
| Transducer Mass               | Kg          |        | 17.4  |           |                            |      |              |        |

## Frequency and Impedance Response



Highcharts.com