

Model No.: GBS-250F38CP01-04  
 Product Line: Tymphany

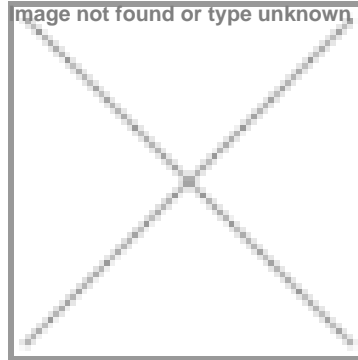
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## Product Description

This 10 inch 4 ohm transducer member of the GBS family provides a very slim woofer capable of large excursion. A highly optimized ferrite magnet and unique suspension layout combine to give a cost effective solution in a previously unavailable package.



## Mechanical Drawing



## Specifications

|                               |             |        |       |           |                            |      |              |       |
|-------------------------------|-------------|--------|-------|-----------|----------------------------|------|--------------|-------|
| DC Resistance                 | Revc        | Ohms   | 3.45  | 5.0%      | Energy Bandwidth Product   | EBP  | (1/Qes)*fs   |       |
| Minimum Impedance             | Zmin        | Ohms   | 4.85  | 7.5%      | Moving Mass                | Mms  | g            | 103.4 |
| Voice Coil Inductance         | Le          | mH     | 2.36  |           | Suspension Compliance      | Cms  | um/N         | 172.5 |
| Resonant Frequency            | Fs          | Hz     | 37.69 | 15%       | Effective Cone diameter    | D    | cm           | 20    |
| Mechanical Q Factor           | Qms         |        | 5.62  |           | Effective Piston Area      | Sd   | cm^2         | 314.2 |
| Electrical Q Factor           | Qes         | 0.49   |       |           | Effective Volume           | Vas  | L            | 23.92 |
| Total Q Factor                | Qts         | 0.45   |       |           | Motor Force Factor         | BL   | Tm           | 13.11 |
| Ratio Fs/Qts                  | F           | Fs/Qts | 83.37 |           | Motor Efficiency Factor    | β    | (T*M^2)/Ohms | 49.7  |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 87.99 | +/- 1.0db | Voice coil former Material | VCfm |              | KSV   |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 85.8  | +/- 1.0db | Voice coil inner diameter  | VCd  | mm           | 38.75 |
| Gap Height                    | Gh          | mm     | 8     |           | Rated Noise Power          | P    | W            | 200   |
| Maximum Linear Excursion      | Xmax        | mm     | 6     |           | Test Spectrum Bandwidth    |      | 50Hz-2000Hz  |       |
| Ferrofluid Type               | FF          |        |       |           | Driver Size                | Inch | 10 in        |       |
| Driver Mass                   | Kg          | 3.24   |       |           |                            |      |              |       |

## Frequency and Impedance Response

