

Model No.: TC6FC00-04

Product Line: Tymphany

Rev: 1

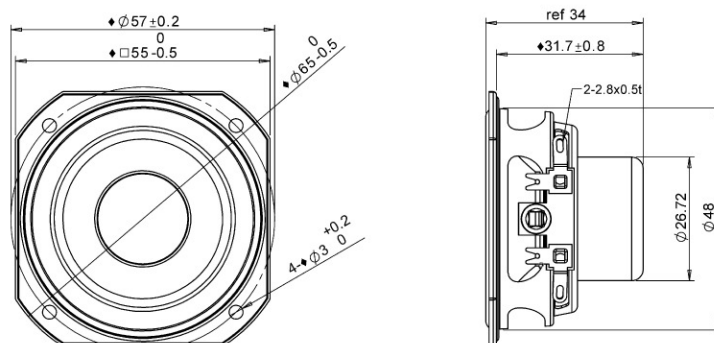
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## Product Description

This TC family 2 inch 4 ohm full-range driver, with neodymium magnet, paper cone and rubber surround, and steel basket, is designed to be a cost-effective high performance full range driver. The cone utilizes Tymphany-patented PentaCut NRSC cone technology to help dampen and control cone resonances, optimizing the listening experience. The motor contains a copper cap to lower inductance and distortion. The product was designed with portable and other compact applications in mind.



## Mechanical Drawing



## Specifications

|                               |             |        |        |           |                            |               |              |
|-------------------------------|-------------|--------|--------|-----------|----------------------------|---------------|--------------|
| DC Resistance                 | Revc        | Ohms   | 3.43   | 5.0%      | Energy Bandwidth Product   | EBP           | (1/Qes)*fs   |
| Minimum Impedance             | Zmin        | Ohms   | 3.89   | 7.5%      | Moving Mass                | Mms           | g            |
| Voice Coil Inductance         | Le          | mH     | 0.03   |           | Suspension Compliance      | Cms           | um/N         |
| Resonant Frequency            | Fs          | Hz     | 186.8  | 15%       | Effective Cone diameter    | D             | cm           |
| Mechanical Q Factor           | Qms         |        | 3.29   |           | Effective Piston Area      | Sd            | cm^2         |
| Electrical Q Factor           | Qes         | 1      |        |           | Effective Volume           | Vas           | L            |
| Total Q Factor                | Qts         |        | 0.77   |           | Motor Force Factor         | BL            | Tm           |
| Ratio Fs/Qts                  | F           | Fs/Qts | 243.87 |           | Motor Efficiency Factor    | β             | (T*M^2)/Ohms |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 86.34  | +/- 1.0db | Voice coil former Material | VCfm          | ASV          |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 83.2   | +/- 1.0db | Voice coil inner diameter  | VCd           | mm           |
| Gap Height                    | Gh          | mm     | 3      |           | Rated Noise Power          | P             | W            |
| Maximum Linear Excursion      | Xmax        | mm     | 1      |           | Test Spectrum Bandwidth    | 150Hz - 20kHz |              |
| Ferrofluid Type               | FF          |        |        |           | Driver Size                | Inch          | 2 in         |
| Driver Mass                   | Kg          | 0.08   |        |           |                            |               |              |

## Frequency and Impedance Response

