



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Model No: TC6FD02-04

Product Line: Tymphany

Rev: 1

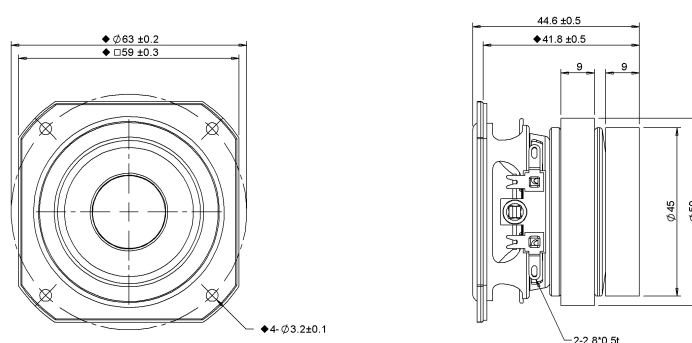
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## Product Description

This TC family full-range driver, with 2 Inch 4Ohm paper cone and rubber surround, 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 television and other compact applications in mind.



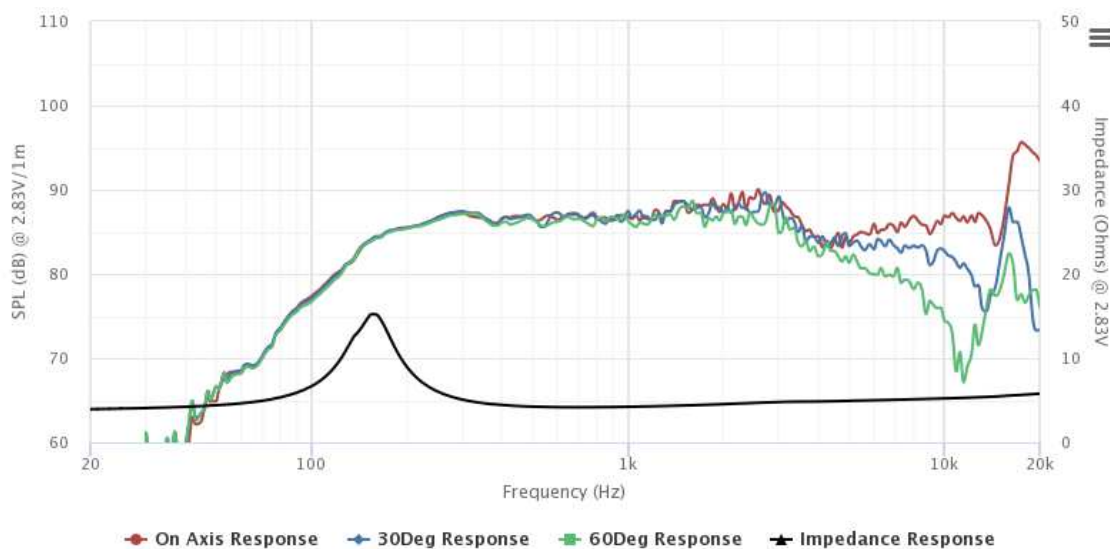
## Mechanical Drawing



## Specifications

|                               |             |        |        |           |                            |         |                          |
|-------------------------------|-------------|--------|--------|-----------|----------------------------|---------|--------------------------|
| DC Resistance                 | Revc        | Ohms   | 3.27   | 5.0%      | Energy Bandwidth Product   | EBP     | (1/Qes)*fs               |
| Minimum Impedance             | Zmin        | Ohms   | 4.17   | 7.5%      | Moving Mass                | Mms     | g                        |
| Voice Coil Inductance         | Le          | mH     | 0.02   |           | Suspension Compliance      | Cms     | um/N                     |
| Resonant Frequency            | Fs          | Hz     | 171.16 | 15%       | Effective Cone diameter    | D       | cm                       |
| Mechanical Q Factor           | Qms         |        | 3.15   |           | Effective Piston Area      | Sd      | cm <sup>2</sup>          |
| Electrical Q Factor           | Qes         | 0.97   |        |           | Effective Volume           | Vas     | L                        |
| Total Q Factor                | Qts         | 0.74   |        |           | Motor Force Factor         | BL      | Tm                       |
| Ratio Fs/Qts                  | F           | Fs/Qts | 230.68 |           | Motor Efficiency Factor    | $\beta$ | (T*M <sup>2</sup> )/Ohms |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 86.84  | +/- 1.0db | Voice coil former Material | VCfm    | ASV                      |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 84     | +/- 1.0db | Voice coil inner diameter  | VCd     | mm                       |
| Gap Height                    | Gh          | mm     | 3      |           | Rated Noise Power          | P       | W                        |
| Maximum Linear Excursion      | Xmax        | mm     | 0.6    |           | Test Spectrum Bandwidth    |         | 100-10000                |
| Ferrofluid Type               | FF          |        |        |           | Driver Size                | Inch    | 2 in                     |
| Driver Mass                   | Kg          | 0.26   |        |           |                            |         |                          |

## Frequency and Impedance Response



Highcharts.com