

Model No.: NE19VTS-04  
 Product Line: Tymphany

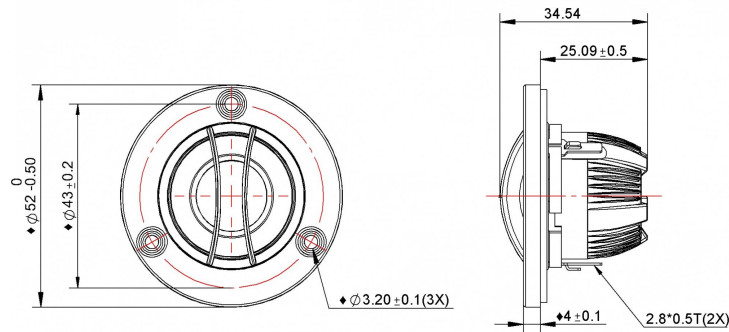
Rev: 1  
 Last Update: 2017-04-25 21:32:09

## Product Description

The 19 mm 4 ohm member of the NE family has leading-edge transducer technology packaged in a cutting edge, stylistic design. The tweeters in this family feature finite element analysis designed Neodymium-Iron-Boron magnet (NdFeB) motors, with copper caps for extended frequency response and reduced distortion. The aluminium rear chambers offer extended low frequency performance, while doubling as heat sinking. The butterfly supporting the tweeter diaphragm is made of a high temperature plastic, consistent with the products high temperature performance rating, and features supporting terminals. The dome material in this design is silk, and the design has been optimized for sound quality and clarity. Rounding out the design is an aluminium face plate and plastic grille, which offers protection for the tweeter diaphragm.



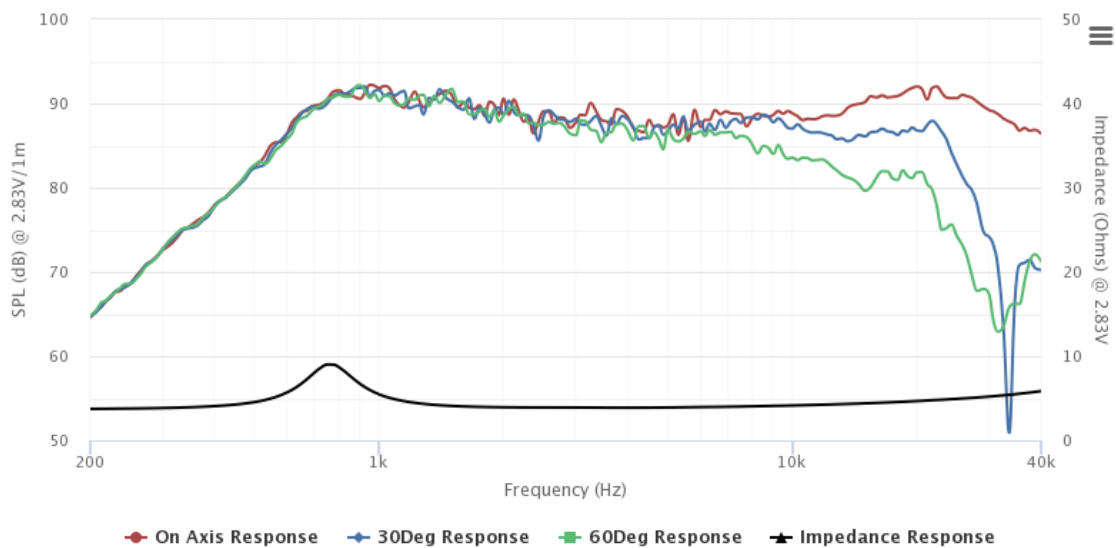
## Mechanical Drawing



## Specifications

|                               |             |        |        |           |                            |      |                          |       |
|-------------------------------|-------------|--------|--------|-----------|----------------------------|------|--------------------------|-------|
| DC Resistance                 | Revc        | Ohms   | 2.71   | 5.0%      | Energy Bandwidth Product   | EBP  | (1/Qes)*fs               |       |
| Minimum Impedance             | Zmin        | Ohms   | 3.88   | 7.5%      | Moving Mass                | Mms  | g                        | 0.2   |
| Voice Coil Inductance         | Le          | mH     | 0.01   |           | Suspension Compliance      | Cms  | um/N                     | 222.9 |
| Resonant Frequency            | Fs          | Hz     | 742.53 | 15%       | Effective Cone diameter    | D    | cm                       | 2.5   |
| Mechanical Q Factor           | Qms         |        | 3.36   |           | Effective Piston Area      | Sd   | cm <sup>2</sup>          | 4.9   |
| Electrical Q Factor           | Qes         | 2.27   |        |           | Effective Volume           | Vas  | L                        | 0.01  |
| Total Q Factor                | Qts         | 1.36   |        |           | Motor Force Factor         | BL   | Tm                       | 1.07  |
| Ratio Fs/Qts                  | F           | Fs/Qts | 547.59 |           | Motor Efficiency Factor    | β    | (T*M <sup>2</sup> )/Ohms | 0.4   |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 88.29  | +/- 1.0db | Voice coil former Material | VCfm |                          | ASV   |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 85.1   | +/- 1.0db | Voice coil inner diameter  | VCd  | mm                       | 19.3  |
| Gap Height                    | Gh          | mm     | 2      |           | Rated Noise Power          | P    | W                        | 100   |
| Maximum Linear Excursion      | Xmax        | mm     | 0.1    |           | Test Spectrum Bandwidth    |      | 2.5kHz - 20kHz           |       |
| Ferrofluid Type               | FF          |        |        |           | Driver Size                | Inch |                          | 19 mm |
| Driver Mass                   | Kg          | 0.06   |        |           |                            |      |                          |       |

## Frequency and Impedance Response



Highcharts.com