



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: NE225W-08  
Product Line: Tymphany

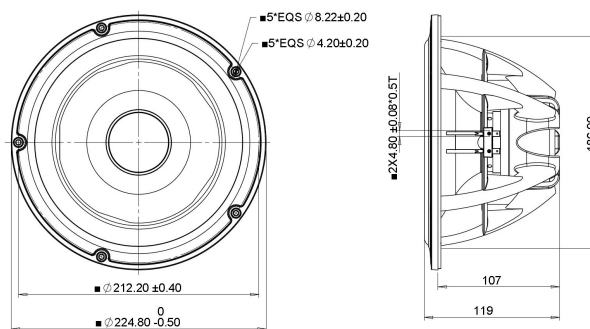
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## Product Description

This 8 inch 8 ohm member of the NE family has leading-edge transducer technology packaged in a cutting edge, stylistic design. The subwoofers in this family feature an innovative cast aluminium basket design which minimizes acoustic reflections inside the driver, through large basket windows and sculpted basket spokes. The basket also is designed to act as a highly coupled heat sink to the NdFeB motor, so as to improve power handling capacity. An additional heat sink is available to provide extra thermal protection if needed. The cone and dust cap are constructed of natural wood fiber material with proprietary coating formulas &&& processes, so as to yield high clarity products. The cone designs also utilize pentacone technology for improved frequency response. The voice coil bobbin is titanium, for improved performance. The FEA-designed motor features copper caps to minimize inductance and extend performance to high frequencies. Rounding out the design is a 4-way terminal block connector, for ease of electrical connection.



## Mechanical Drawing



## Specifications

|                               |             |        |       |           |                            |         |                          |
|-------------------------------|-------------|--------|-------|-----------|----------------------------|---------|--------------------------|
| DC Resistance                 | Revc        | Ohms   | 6.32  | 5.0%      | Energy Bandwidth Product   | EBP     | (1/Qes)*fs               |
| Minimum Impedance             | Zmin        | Ohms   | 7.79  | 7.5%      | Moving Mass                | Mms     | g                        |
| Voice Coil Inductance         | Le          | mH     | 0.21  |           | Suspension Compliance      | Cms     | um/N                     |
| Resonant Frequency            | Fs          | Hz     | 31.9  | 15%       | Effective Cone diameter    | D       | cm                       |
| Mechanical Q Factor           | Qms         |        | 8.84  |           | Effective Piston Area      | Sd      | cm <sup>2</sup>          |
| Electrical Q Factor           | Qes         | 0.34   |       |           | Effective Volume           | Vas     | L                        |
| Total Q Factor                | Qts         | 0.33   |       |           | Motor Force Factor         | BL      | Tm                       |
| Ratio Fs/Qts                  | F           | Fs/Qts | 96.65 |           | Motor Efficiency Factor    | $\beta$ | (T*M <sup>2</sup> )/Ohms |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 88.57 | +/- 1.0db | Voice coil former Material | VCfm    | TiSV                     |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 88.4  | +/- 1.0db | Voice coil inner diameter  | VCd     | mm                       |
| Gap Height                    | Gh          | mm     | 8     |           | Rated Noise Power          | P       | W                        |
| Maximum Linear Excursion      | Xmax        | mm     | 7.7   |           | Test Spectrum Bandwidth    |         | 20Hz - 2kHz              |
| Ferrofluid Type               | FF          |        |       |           | Driver Size                | Inch    | 8 in                     |
| Driver Mass                   | Kg          | 1.84   |       |           |                            |         |                          |

## Frequency and Impedance Response



Highcharts.com