

Model No.: DX20BF00-04  
Product Line: Tymphany

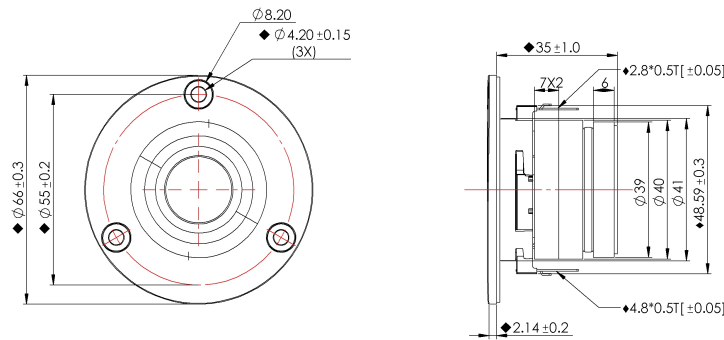
Rev: 1  
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## Product Description

This DX family tweeter features a 19mm 4 ohm voice coil, a damped silk diaphragm with large surround roll to produce a low resonant frequency, and a ferrite magnet motor which adds heat sinking for power handling capacity. The faceplate features recessed mounting holes to minimize reflections.



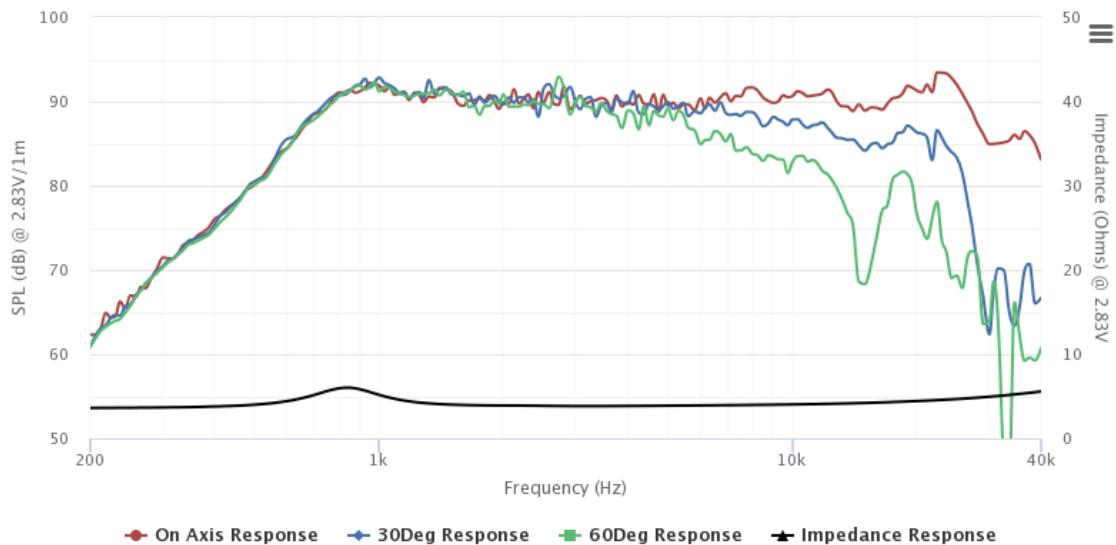
## Mechanical Drawing



## Specifications

|                               |             |        |         |           |                            |         |                          |              |
|-------------------------------|-------------|--------|---------|-----------|----------------------------|---------|--------------------------|--------------|
| DC Resistance                 | Revc        | Ohms   | 2.81    | 5.0%      | Energy Bandwidth Product   | EBP     | (1/Qes)*fs               |              |
| Minimum Impedance             | Zmin        | Ohms   | 3.83    | 7.5%      | Moving Mass                | Mms     | g                        | 0.2          |
| Voice Coil Inductance         | Le          | mH     | 0.01    |           | Suspension Compliance      | Cms     | um/N                     | 184.5        |
| Resonant Frequency            | Fs          | Hz     | 822.14  | 15%       | Effective Cone diameter    | D       | cm                       | 2.5          |
| Mechanical Q Factor           | Qms         |        | 2.24    |           | Effective Piston Area      | Sd      | cm <sup>2</sup>          | 4.9          |
| Electrical Q Factor           | Qes         |        | 2.93    |           | Effective Volume           | Vas     | L                        | 0            |
| Total Q Factor                | Qts         |        | 1.27    |           | Motor Force Factor         | BL      | Tm                       | 1            |
| Ratio Fs/Qts                  | F           | Fs/Qts | 647.35  |           | Motor Efficiency Factor    | $\beta$ | (T*M <sup>2</sup> )/Ohms | 0.4          |
| Half Space Sensitivity @2.83V | db@2.83V/1M | dB     | 90.14   | +/- 1.0db | Voice coil former Material | VCfm    |                          | ASV          |
| Half Space Sensitivity @1W/1M | db@1W/1M    | dB     | 86.9    | +/- 1.0db | Voice coil inner diameter  | VCd     | mm                       | 19.3         |
| Gap Height                    | Gh          | mm     | 2       |           | Rated Noise Power          | P       | W                        | 60           |
| Maximum Linear Excursion      | Xmax        | mm     | 0.2     |           | Test Spectrum Bandwidth    |         |                          | 2.5KHz-20KHz |
| Ferrofluid Type               | FF          |        | APG027N |           | Driver Size                | Inch    |                          | 19 mm        |
| Driver Mass                   | Kg          |        | 0.17    |           |                            |         |                          |              |

## Frequency and Impedance Response



Highcharts.com