

XT/DX 1" Tweeter



Type Number: DX25TG05-04

Features:

The goal for this tweeter series was to create a transducer that has a frequency response that is flat to above 20K, and where the distortion is far lower than normal and more friendly to the ear. The tweeters represent a unique approach to tweeter design that has resulted in unrivaled performance, as well as in several patents (Dual Ring Radiator diaphragm, wave-guide center plug).

In this design, Vifa audio engineers have tried to reinvent the traditional dome tweeter. Based on the knowledge obtained from work on the XT series, Vifa's R&D team combined a traditional dome design with the large surround of the XT. This results in a tweeter that has a very good dispersion and low distortion, due to the improved control of the diaphragm.

Driver Highlights: dome tweeter, fabric diaphragm, High sensitivity, High Dispersion



Specs:

Electrical Data

| | | | |
|-----------------------|------|------|-----|
| Nominal impedance | Zn | 4 | ohm |
| Minimum impedance | Zmin | -- | ohm |
| Maximum impedance | Zo | 19 | ohm |
| DC resistance | Re | 2.75 | ohm |
| Voice coil inductance | Le | -- | mH |

T-S Parameters

| | | | |
|-------------------------|-----|------|-----------------|
| Resonance Frequency | fs | 650 | Hz |
| Mechanical Q factor | Qms | 4.32 | |
| Electrical Q factor | Qes | 0.79 | |
| Total Q factor | Qts | 0.67 | |
| Force factor | Bl | 2.2 | Tm |
| Mechanical resistance | Rms | 0.47 | Kg/s |
| Moving mass | Mms | 0.42 | g |
| Suspension compliance | Cms | -- | mm/N |
| Effective cone diameter | D | -- | cm |
| Effective piston area | Sd | 7 | cm ² |
| Equivalent volume | Vas | -- | ltrs |
| Sensitivity (2.83V/1m) | | 93.5 | dB |

Power handling

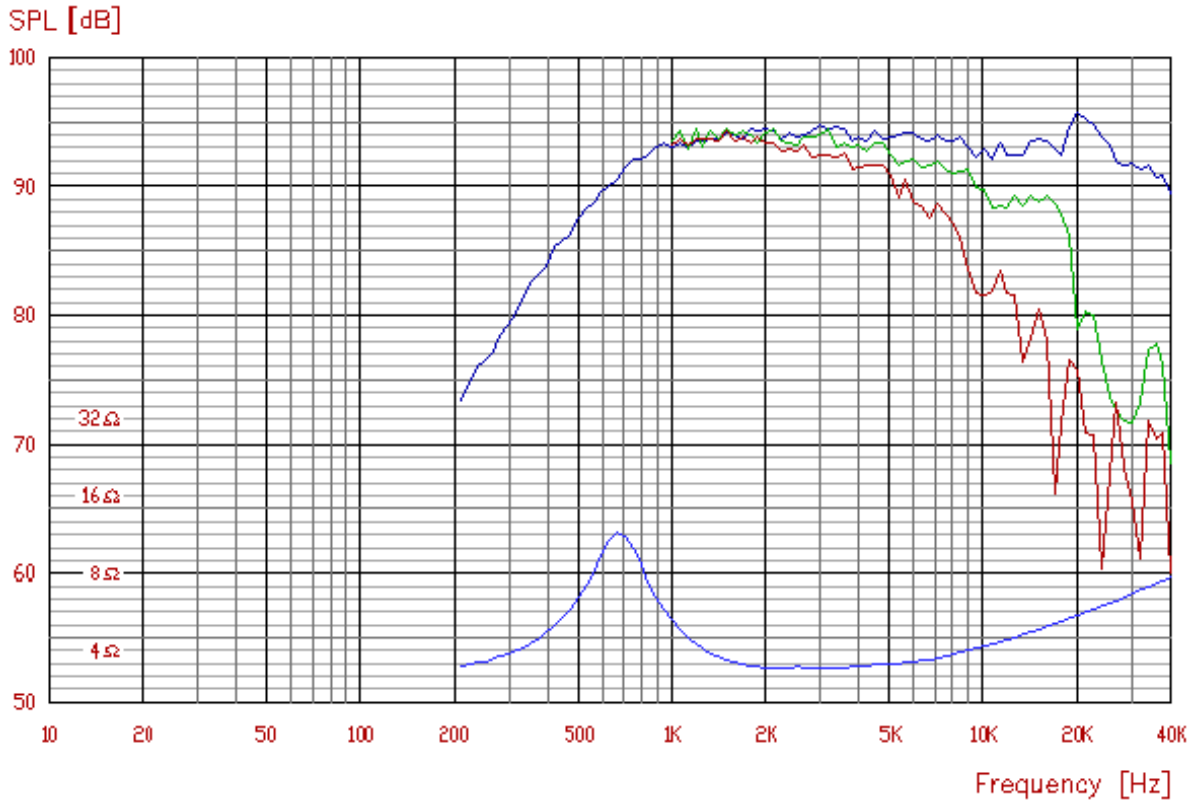
| | | |
|---------------------------------|----|---|
| Long-term Max Power (IEC 18.3) | -- | W |
| Short Term Max power (IEC 18.2) | -- | W |

Voice Coil and Magnet Parameters

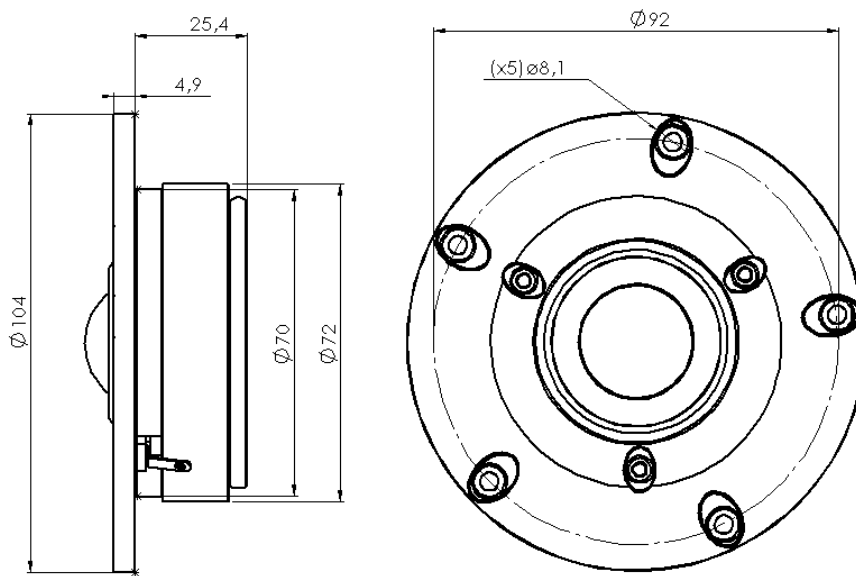
| | | |
|---------------------|----|-----|
| Voice coil diameter | 25 | mm |
| Voice coil height | -- | mm |
| Voice coil layers | -- | |
| Height of the gap | 2 | mm |
| Flux density of gap | -- | mWb |
| Total useful flux | -- | mWb |
| Diameter of magnet | -- | mm |
| Height of magnet | -- | mm |
| Weight of magnet | -- | Kg |

Notes:
IEC specs refer to IEC 60268-5 third edition.
All Tympany products are RoHS compliant.

Frequency: DX25TG05-04



Mechanical Dimensions: DX25TG05-04



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