

XT/DX 1" Tweeter



Type Number: XT25SC90-04

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).

Driver Highlights: Dual Ring Radiator diaphragm (Patent), Wave-guide center plug (Patent), copper-clad aluwire



Specs:

Electrical Data

| | | | |
|-----------------------|------|------|-----|
| Nominal impedance | Zn | 4 | ohm |
| Minimum impedance | Zmin | 4 | ohm |
| Maximum impedance | Zo | 21.9 | ohm |
| DC resistance | Re | 3.1 | ohm |
| Voice coil inductance | Le | 7.5 | mH |

T-S Parameters

| | | | |
|-------------------------|-----|------|-----------------|
| Resonance Frequency | fs | 837 | Hz |
| Mechanical Q factor | Qms | 6.74 | |
| Electrical Q factor | Qes | 1.04 | |
| Total Q factor | Qts | 0.9 | |
| Force factor | Bl | -- | Tm |
| Mechanical resistance | Rms | -- | Kg/s |
| Moving mass | Mms | -- | g |
| Suspension compliance | Cms | -- | mm/N |
| Effective cone diameter | D | 3 | cm |
| Effective piston area | Sd | 7 | cm ² |
| Equivalent volume | Vas | -- | ltrs |
| Sensitivity (2.83V/1m) | | 91.7 | dB |
| Ratio fs/Qts | F | 931 | |

Power handling

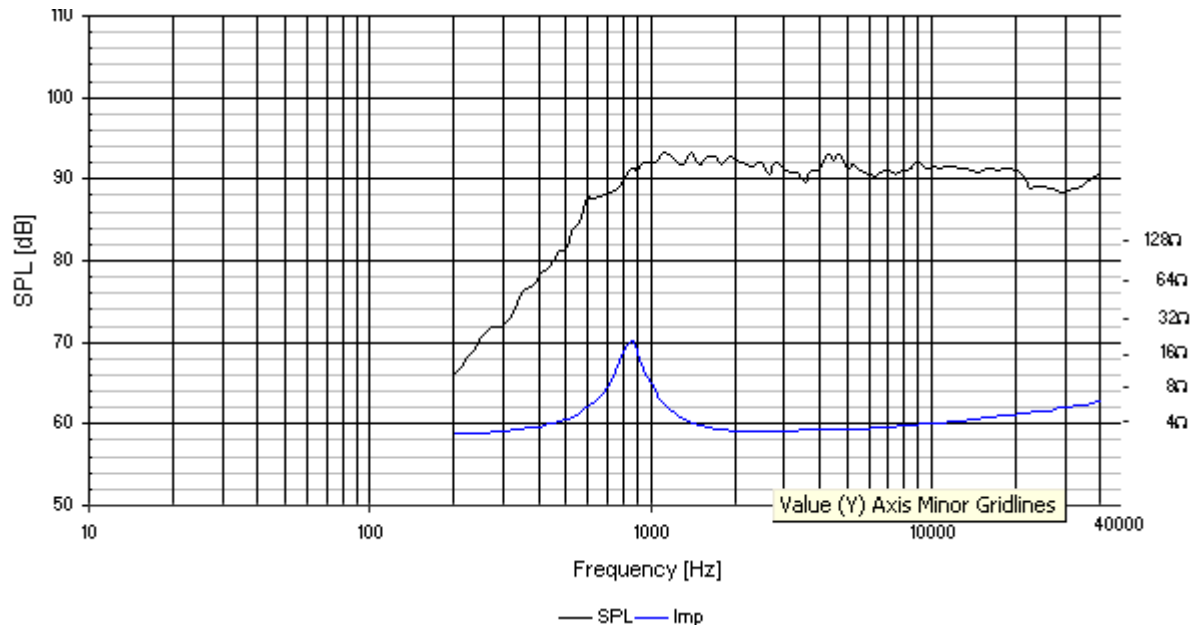
| | | |
|---------------------------------|----|---|
| Long-term Max Power (IEC 18.3) | -- | W |
| Short Term Max power (IEC 18.2) | -- | W |

Voice Coil and Magnet Parameters

| | | |
|---------------------|-----|-----|
| Voice coil diameter | 26 | mm |
| Voice coil height | 2.2 | mm |
| Voice coil layers | 2 | |
| 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: XT25SC90-04



Mechanical Dimensions: XT25SC90-04

