

HDS 1" Tweeter



Type Number: 810921

Features:

The new Peerless HDS tweeter builds on Peerless' long history of tweeter design by optimizing several key design elements for pure, clean music reproduction. The HDS tweeter uses a very light, low mass "soft dome" with high internal damping, and a highly-optimized, low-compression magnet system, which was designed especially for the low mass dome. The result is a driver that has both good sensitivity and an impressive range into the lower frequencies.

The low mass dome, coupled with a fully vented motor system provides non-compressed sound reproduction over the entire frequency response. This combination allows the HDS tweeter to be used in systems with lower cross-over points than is recommended for most normal tweeters, making this product a powerful tool for any acoustic designer in the process of tuning a system.



The HDS tweeter is ideal for use in applications including home entertainment, studio monitors, and general hi-fi systems.

See architecture notes for [HDS Platform](#)

Driver Highlights: 104 DT 26 72 SF HDS DM 8/6 OHM

Specs: Preliminary

Electrical Data

| | | | |
|-----------------------|------|-----|-----|
| Nominal impedance | Zn | 8 | ohm |
| Minimum impedance | Zmin | -- | ohm |
| Maximum impedance | Zo | -- | ohm |
| DC resistance | Re | 5.6 | ohm |
| Voice coil inductance | Le | -- | mH |

T-S Parameters

| | | | |
|-------------------------|-----|-----|-----------------|
| Resonance Frequency | fs | 700 | Hz |
| Mechanical Q factor | Qms | -- | |
| Electrical Q factor | Qes | -- | |
| Total Q factor | Qts | -- | |
| Force factor | Bl | -- | Tm |
| Mechanical resistance | Rms | -- | Kg/s |
| Moving mass | Mms | -- | g |
| Suspension compliance | Cms | -- | mm/N |
| Effective cone diameter | D | -- | cm |
| Effective piston area | Sd | -- | cm ² |
| Equivalent volume | Vas | -- | ltrs |
| Sensitivity (2.83V/1m) | | 93 | dB |

Power handling

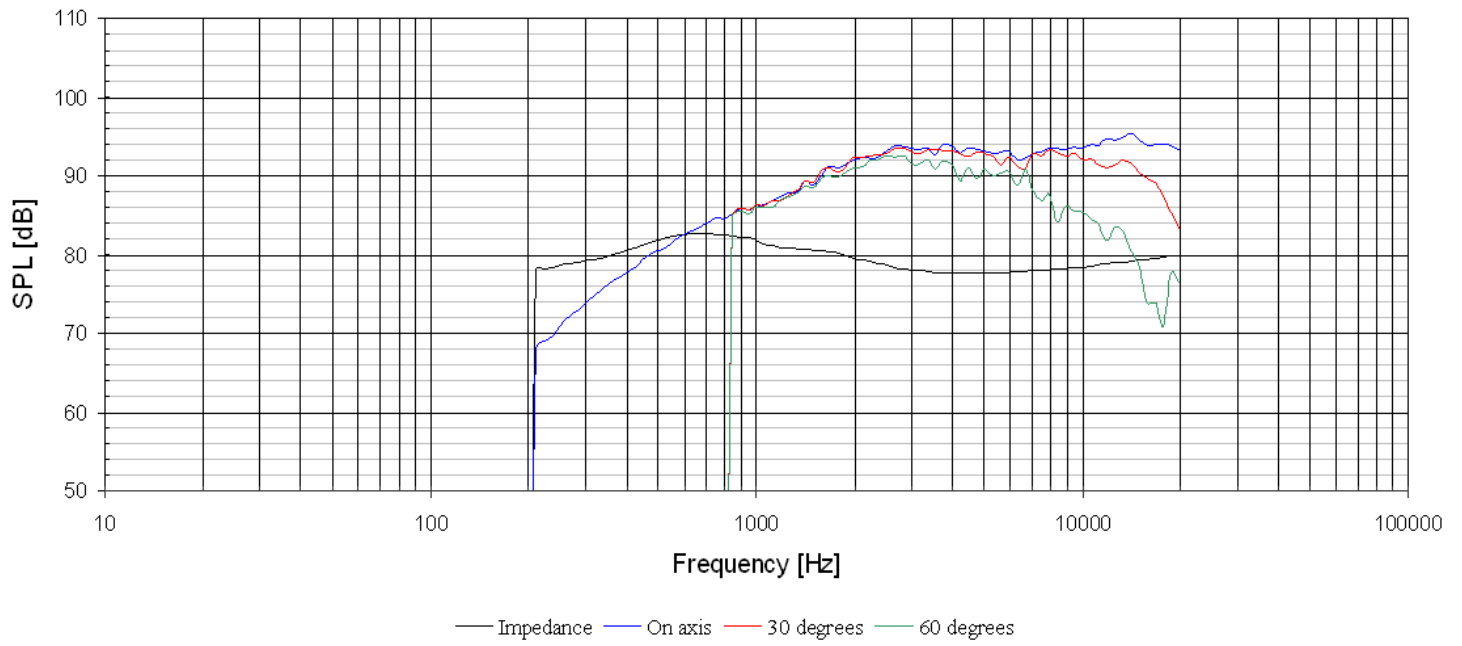
| | | |
|---------------------------------|----|---|
| Long-term Max Power (IEC 18.3) | -- | W |
| Short Term Max power (IEC 18.2) | -- | W |

Voice Coil and Magnet Parameters

| | | |
|---------------------|-----|-----|
| Voice coil diameter | 26 | mm |
| Voice coil height | 1.5 | mm |
| Voice coil layers | 2 | |
| Height of the gap | 2.5 | mm |
| Flux density of gap | -- | mWb |
| Total useful flux | -- | mWb |
| Diameter of magnet | 72 | mm |
| Height of magnet | 22 | mm |
| Weight of magnet | -- | Kg |

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

Frequency: Preliminary 810921



Mechanical Dimensions: 810921

