

HDS Nomex 6½" Midwoofer



Type Number: 830875

Features:

The High Definition Sound (HDS) NOMEX Series offers high-quality solutions for both multi-way speaker systems and vented box applications. Featuring "shorting rings" for low distortion and coils offering perfect linear compatibility with NOMEX cones, these audio transducers are characterized by their very open, very rich sound character.

See architecture notes for [HDS Platform](#)

Driver Highlights: Nomex diaphragm, 33 mm coil, AL

See [Application Notes](#)

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Specs:

Electrical Data

| | | | |
|-----------------------|------|-----|-----|
| Nominal impedance | Zn | 8 | ohm |
| Minimum impedance | Zmin | 7.1 | ohm |
| Maximum impedance | Zo | 44 | ohm |
| DC resistance | Re | 6.4 | ohm |
| Voice coil inductance | Le | 1.3 | mH |

T-S Parameters

| | | | |
|-------------------------|-----|------|-----------------|
| Resonance Frequency | fs | 48.1 | Hz |
| Mechanical Q factor | Qms | 2.67 | |
| Electrical Q factor | Qes | 0.45 | |
| Total Q factor | Qts | 0.39 | |
| Force factor | Bl | 8.4 | Tm |
| Mechanical resistance | Rms | 1.88 | Kg/s |
| Moving mass | Mms | 16.6 | g |
| Suspension compliance | Cms | 0.66 | mm/N |
| Effective cone diameter | D | 13.3 | cm |
| Effective piston area | Sd | 139 | cm ² |
| Equivalent volume | Vas | 17.6 | ltrs |
| Sensitivity (2.83V/1m) | | 88.6 | dB |
| Ratio BL/√(Re) | | 3.3 | |
| Ratio fs/Qts | F | 124 | |

Power handling

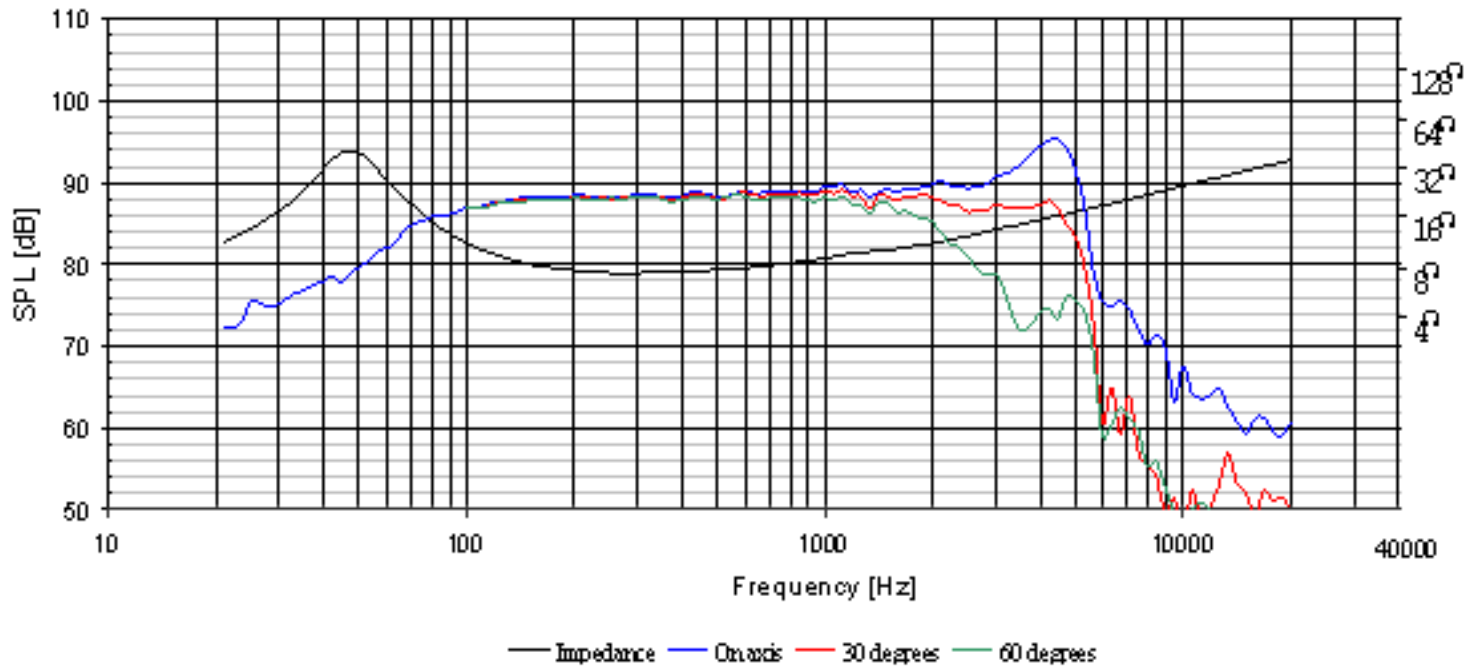
| | | |
|---------------------------------|----|------|
| 100h RMS noise test (IEC) | -- | W |
| Long-term Max Power (IEC 18.3) | -- | W |
| Max linear SPL (rms) @ power | -- | dB/W |
| Short Term Max power (IEC 18.2) | -- | W |

Voice Coil and Magnet Parameters

| | | |
|-------------------------|------|-----|
| Voice coil diameter | 33 | mm |
| Voice coil height | 17 | mm |
| Voice coil layers | 2 | |
| Height of the gap | 6 | mm |
| Linear excursion +/- | 5.5 | mm |
| Max mech. excursion +/- | -- | mm |
| Flux density of gap | -- | mWb |
| Total useful flux | 1.1 | mWb |
| Diameter of magnet | 102 | mm |
| Height of magnet | 20 | mm |
| Weight of magnet | 0.68 | Kg |

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

Frequency: 830875



Mechanical Dimensions:830875

