

Tymphany LAT 250 Subwoofer



Type Number: LAT250-001

Features:

The patented LAT 250 is designed to provide strong bass performance in a new vibration-free, cylindrical form factor. The driver may be configured for use in sealed, vented, bandpass or open-baffle enclosures, and provides high bass output from a very compact transducer. In typical applications, mechanical vibration is more than 90% lower than comparable loudspeakers, even at full output. The LAT 250 employs dual voice coils, and impedance configurations from 2 Ohm to 16 Ohm are available per customer requirements.

Paired with the Peerless Lifestyle driver, the Tymphany LAT, is an ideal solution for lifestyle consumer electronics products such as flat panel TVs and sound bars, MP3 and cell phone docking stations, multimedia PCs and other small devices.



Note: The nominal impedance is calculated with both coils driven in parallel.

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Specs:

Electrical Data

| | | | |
|-------------------|------|-----|-----|
| Nominal impedance | Zn | 2 | ohm |
| Minimum impedance | Zmin | 2.1 | ohm |
| Maximum impedance | Zo | 8.4 | ohm |
| DC resistance | Re | 2 | ohm |

T-S Parameters

| | | | |
|-------------------------|-----|------|-----------------|
| Resonance Frequency | fs | 60 | Hz |
| Mechanical Q factor | Qms | 3.4 | |
| Electrical Q factor | Qes | 1 | |
| Total Q factor | Qts | 0.79 | |
| Force factor | Bl | 5.6 | Tm |
| Mechanical resistance | Rms | 4.9 | Kg/s |
| Moving mass | Mms | 44 | g |
| Suspension compliance | Cms | 0.16 | mm/N |
| Effective cone diameter | D | 15.8 | cm |
| Effective piston area | Sd | 196 | cm ² |
| Equivalent volume | Vas | 8.9 | ltrs |
| Sensitivity (2.83V/1m) | | 90.5 | dB |
| Sensitivity (1W/1m) | | 84.5 | dB |
| Ratio BL/√(Re) | | 4 | |
| Ratio fs/Qts | F | 76 | |

Power handling

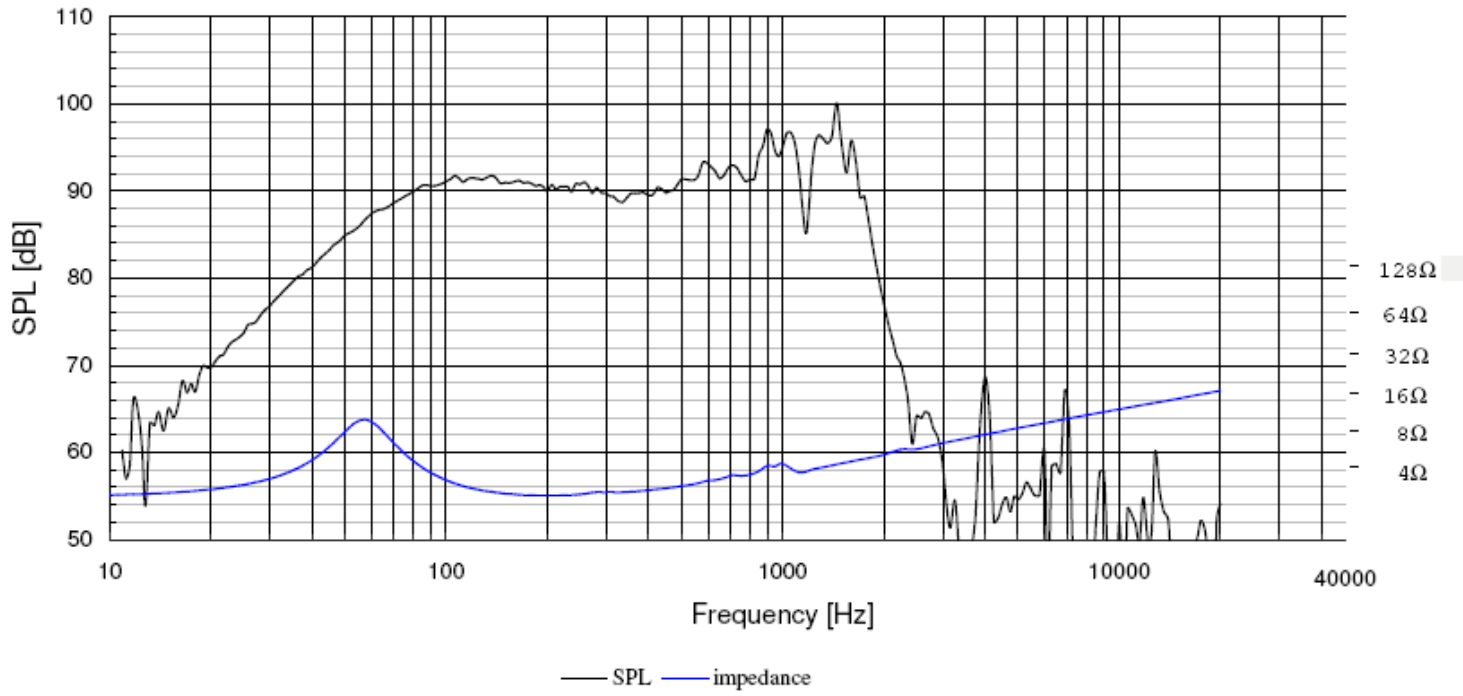
Rated Noise Power (IEC 18.1) 100 W

Misc. Parameters

| | | |
|--------------------------------------|--------|-------|
| Effective Frequency range (IEC 21.2) | 50-300 | Hz |
| Frame dimensions | 260x90 | mm |
| Total Mass | 845 | grams |
| Frequency at ka=2 | 1518 | Hz |

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

Frequency: LAT250-001



Mechanical Dimensions: LAT250-001

