

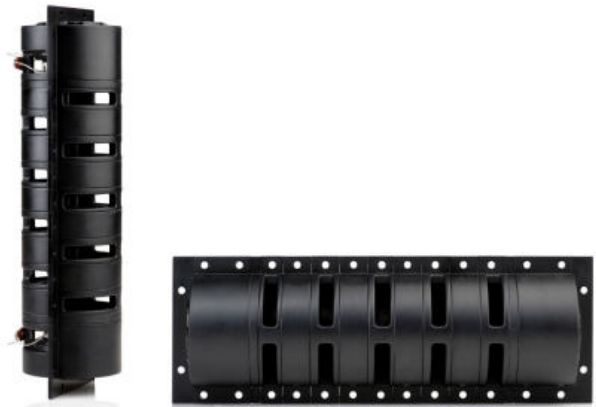
## Tymphany LAT 250 Subwoofer



Type Number: LAT250PB600-02

### 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. Power handling is 100 Watts of continuous broadband input, and sustained output levels in excess of 100 dB SPL at 1 meter are readily possible. 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.

### 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
Voice coil inductance	Le	0.28	mH
Capacitor in series with x ohm	Cc	--	uF

#### 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 <sup>2</sup>
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

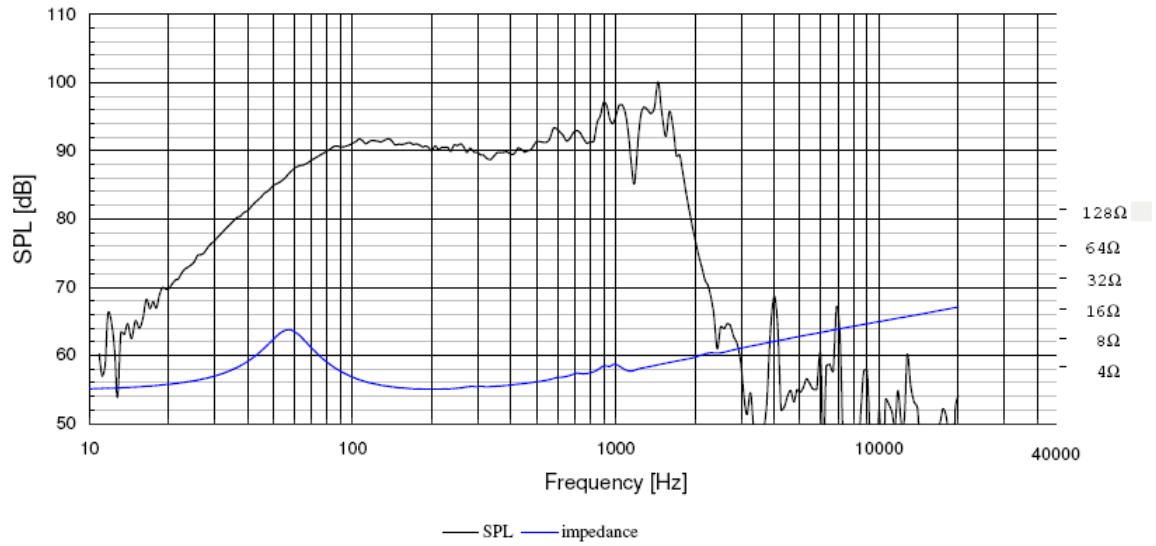
Rated Noise Power (IEC 18.1)	100	W
Long-term Max Power (IEC 18.3)	--	W
Short Term Max power (IEC 18.2)	--	W

#### Misc. Parameters

Effective Frequency range (IEC 21.2)	50-300	Hz
Performance Temp. range (IEC 25.1.1)	--	°C
Damage Temp. range (IEC 25.1.2)	--	°C
Relative Humidity Range (IEC 25.2.1)	--	%
Damage Humidity Range (IEC 25.2.2)	--	%
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:



## Mechanical Dimensions:

