

Tymphany LAT 500 Subwoofer



Type Number: LAT50006001-08

Features:

Driver Highlights: The power of two 10" subwoofers in a sleek tube-shaped transducer only 5" wide.

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



Specs: Preliminary

Electrical Data

Nominal impedance	Zn	8	ohm
Minimum impedance	Zmin	8.1	ohm
Maximum impedance	Zo	140	ohm
DC resistance	Re	8	ohm
Voice coil inductance	Le	4	mH

T-S Parameters

Resonance Frequency	fs	28	Hz
Mechanical Q factor	Qms	9	
Electrical Q factor	Qes	0.4	
Total Q factor	Qts	0.4	
Force factor	Bl	23	Tm
Mechanical resistance	Rms	3	Kg/s
Moving mass	Mms	160	g
Suspension compliance	Cms	0.21	mm/N
Effective cone diameter	D	25.9	cm
Effective piston area	Sd	525	cm ²
Equivalent volume	Vas	81	ltrs
Sensitivity (2.83V/1m)		89	dB
Ratio BL/√(Re)		8.2	
Ratio fs/Qts	F	72	

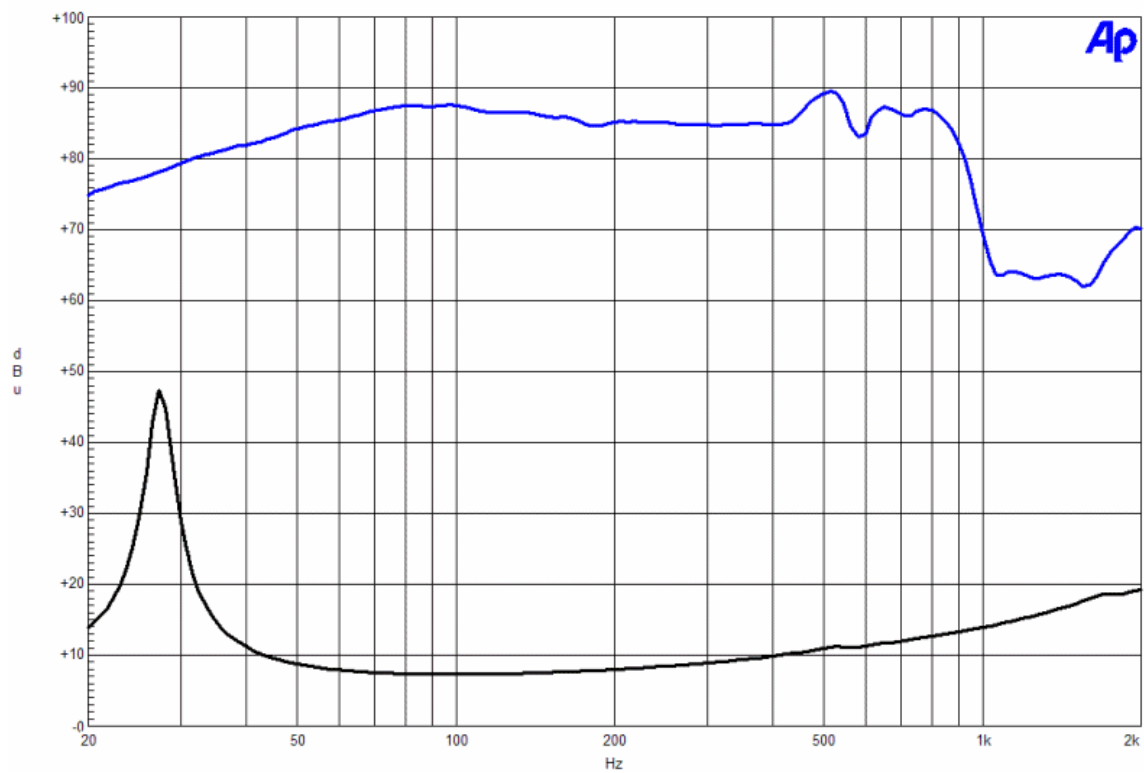
Power handling

100h RMS noise test (IEC)	250	W
Long-term Max Power (IEC 18.3)	750	W

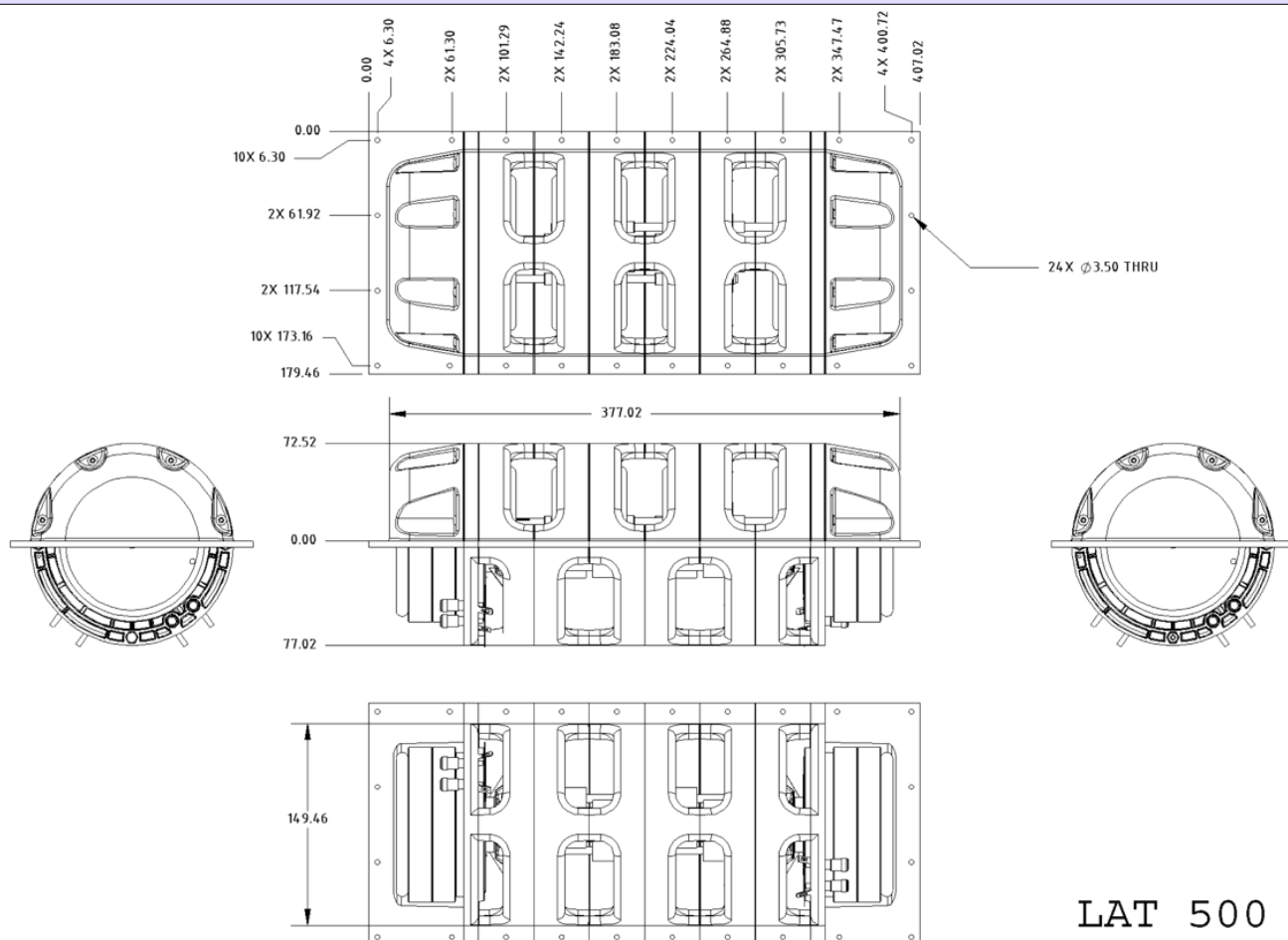
Voice Coil and Magnet Parameters

Voice coil diameter	38	mm
Voice coil height	19	mm
Voice coil layers	6	
Height of the gap	8	mm
Linear excursion +/-	5.5	mm
Max mech. excursion +/-	10	mm
Diameter of magnet	115	mm
Height of magnet	17.5	mm
Weight of magnet	2.72	Kg

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



Mechanical Dimensions:



LAT 500