

## 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.



### 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
Capacitor in series with x ohm	Cc	--	uF

#### T-S Parameters

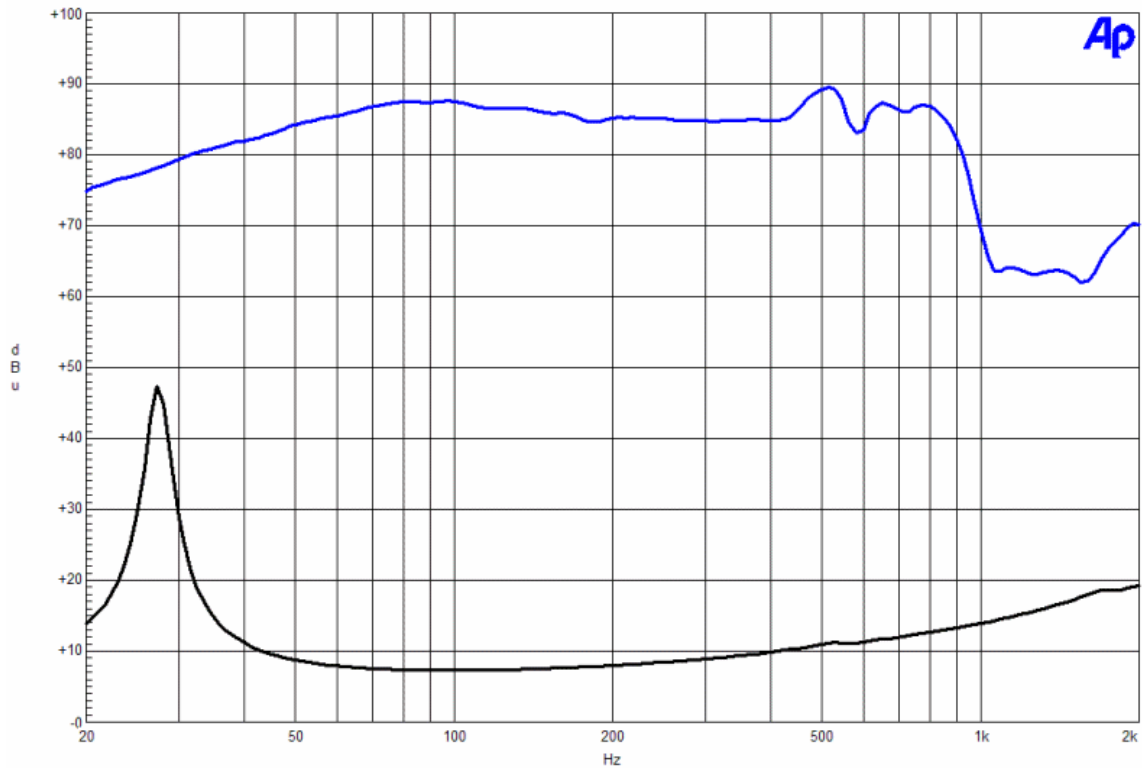
Resonance Frequency	fs	28	Hz
Mechanical Q factor	Qms	9	
Electrical Q factor	Qes	0.4	
Total Q factor	Qts	0.4	
Ratio fs/Qts	F	72	
Force factor	Bl	23	Tm
Mechanical resistance	Rms	3	Kg/s
Moving mass	Mms	160	g
Suspension compliance	Cms	0.21	mm/N
Effective cone diameter	D	25.9	cm
Effective piston area	Sd	525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

#### Power handling

100h RMS noise test (IEC)	250	W
Long-term Max System Power (IEC)	750	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power	--	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
Flux density of gap	--	mWb
Total useful flux	--	mWb
Diameter of magnet	115	mm
Height of magnet	17.5	mm
Weight of magnet	2.4	Kg



**Mechanical Dimensions:**