

## Tymphany LAT 700 Subwoofer



Type Number: LAT700-001

### Features:

Driver Highlights: The power of two 12" subwoofers in a sleek tube-shaped transducer only 7" wide.

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



### Specs: Preliminary

#### Electrical Data

Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	3.7	ohm
Maximum impedance	Zo	25	ohm
DC resistance	Re	3.6	ohm
Voice coil inductance	Le	4	mH

#### T-S Parameters

Resonance Frequency	fs	24	Hz
Mechanical Q factor	Qms	3.5	
Electrical Q factor	Qes	0.65	
Total Q factor	Qts	0.55	
Force factor	Bl	18	Tm
Mechanical resistance	Rms	16	Kg/s
Moving mass	Mms	380	g
Suspension compliance	Cms	0.12	mm/N
Effective cone diameter	D	32.3	cm
Effective piston area	Sd	820	cm <sup>2</sup>
Equivalent volume	Vas	110	ltrs
Sensitivity (2.83V/1m)		89	dB
Ratio BL/√(Re)		9.5	
Ratio fs/Qts	F	44	

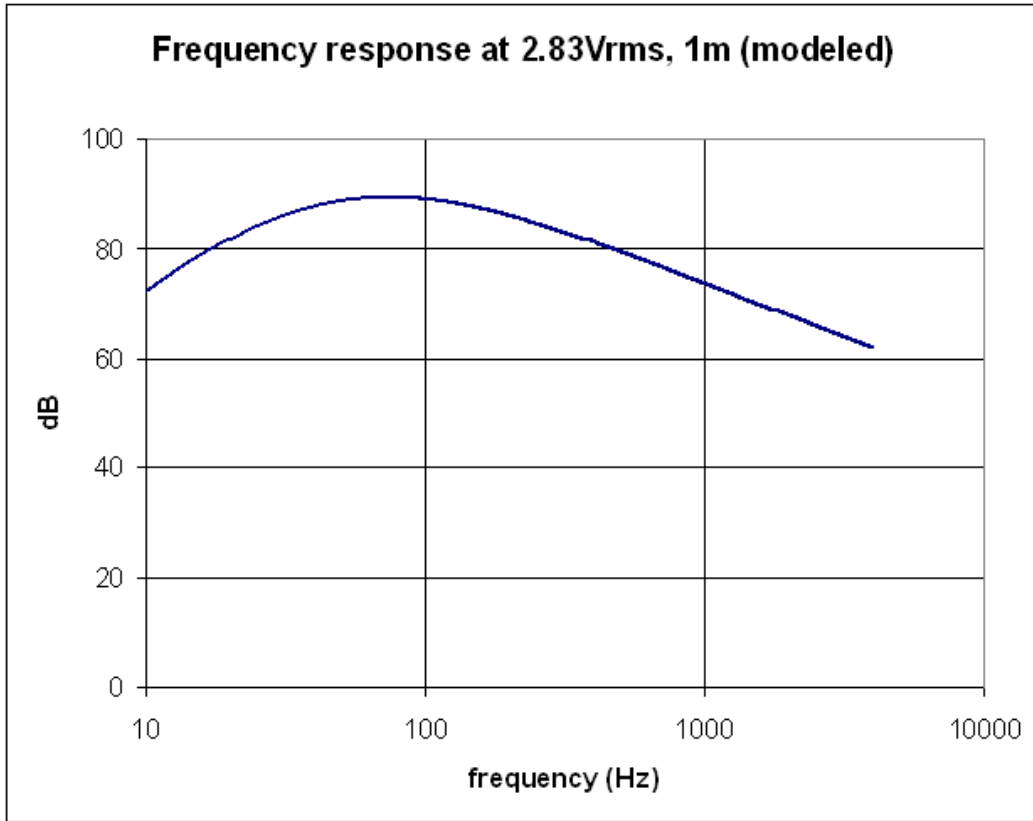
#### Power handling

100h RMS noise test (IEC)	500	W
Long-term Max Power (IEC 18.3)	1000	W

#### Voice Coil and Magnet Parameters

Voice coil diameter	50	mm
Voice coil height	26	mm
Voice coil layers	4	
Height of the gap	10	mm
Linear excursion +/-	8	mm
Max mech. excursion +/-	16	mm
Diameter of magnet	147	mm
Height of magnet	35	mm
Weight of magnet	4.5	Kg

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



**Mechanical Dimensions: LAT700-001**

