

LAT500-04

Electrical Data

Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	3.2	ohm
Maximum impedance	Zo	46	ohm
DC resistance	Re	3.1	ohm
Voice coil inductance	Le	1.5	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	0.5	
Total Q factor	Qts	0.45	
Force factor	Bl	13	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)		92	dB
Ratio BL/√(Re)		7.5	
Ratio fs/Qts	F	61	

Power handling

100h RMS noise test (IEC)	250	W
Long-term Max Power (IEC 18.3)	750	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power (IEC 18.2)	--	W

Voice Coil and Magnet Parameters

Voice coil diameter	38	mm
Voice coil height	21.3	mm
Voice coil layers	4	
Height of the gap	8	mm
Linear excursion +/-	6.7	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

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

