

XXLS 12" Subwoofer



Type Number: 830844

Features:

This new series of state-of-the-art subwoofers continue to enhance Peerless' reputation for delivering the highest quality components for bass in the world. Called the XXLS - for "Xpanded Extra Long Stroke" - these new audio transducers add even more excursion to the Peerless XLS line, and completely eliminate distortion.

See architecture notes for XXLS Platform

Driver Highlights: Thick Nomex cone, 51 mm voice coil, ALP

See <u>Application Notes</u>

Go to Application Notes.

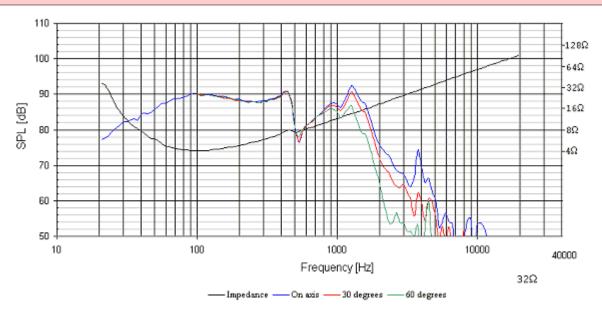
Go to Architecture Notes



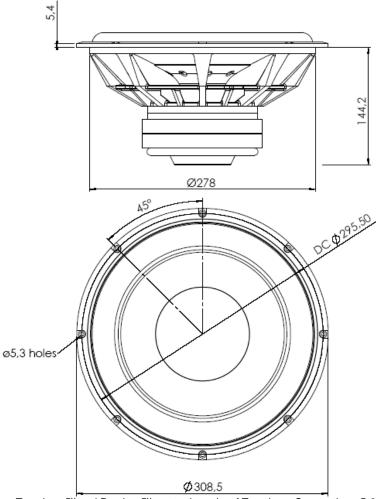
Specs:

Electrical Data				Power handling		
Nominal impedance	Zn	4	ohm	100h RMS noise test (IEC)	175	W
Minimum impedance	Zmin	3.8	ohm	Long-term Max Power (IEC 18.3)	350	W
Maximum impedance	Zo	119.4	ohm	Max linear SPL (rms) @ power		dB/W
DC resistance	Re	2.8	ohm	Short Term Max power (IEC 18.2)		W
Voice coil inductance	Le	4.2	mΗ	Voice Coil and Magnet Parameters		
Capacitor in series with x ohm	Сс		uF	Voice coil diameter	51	mm
•				Voice coil height	33	mm
T-S Parameters	fs	17.7	Hz	Voice coil layers	4	
Resonance Frequency Mechanical Q factor	Qms	8.21	112	Height of the gap	8	mm
Electrical Q factor	Qes	0.21		Linear excursion +/-	12.5	mm
Total Q factor	Qts	0.2		Max mech. excursion +/-		mm
Force factor	BI	15.7	Tm	Flux density of gap		mWb
Mechanical resistance	Rms	2.11	Kg/s	Total useful flux	2.3	mWb
Moving mass	Mms	155.9	g g	Diameter of magnet	147	mm
Suspension compliance	Cms	0.52	mm/N	Height of magnet	35	mm
Effective cone diameter	D	24.4	cm	Weight of magnet	2.4	Kg
Effective piston area	Sd	466	cm ²	3		
Equivalent volume	Vas	156.5	Itrs			
Sensitivity (2.83V/1m)		90.3	dB			
Ratio BL/√(Re)		9.3		Notes:		
Ratio fs/Qts	F	90		IEC specs refer to IEC 60268-5 third edition. All Tymphany products are RoHS compliant.		
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Frequency: 830844



Mechanical Dimensions:830844



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