TYMPHANY

XXLS
10″ Subwoofer

Peerless

Type Number: 830846

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.



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

Go to Application Notes.

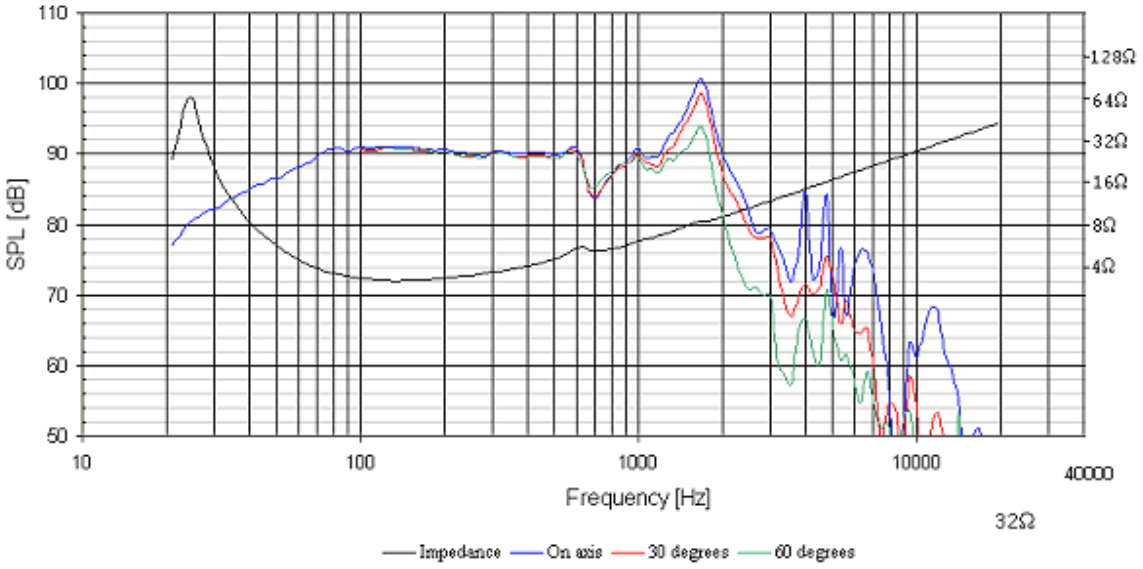
Go to Architecture Notes

Specs:

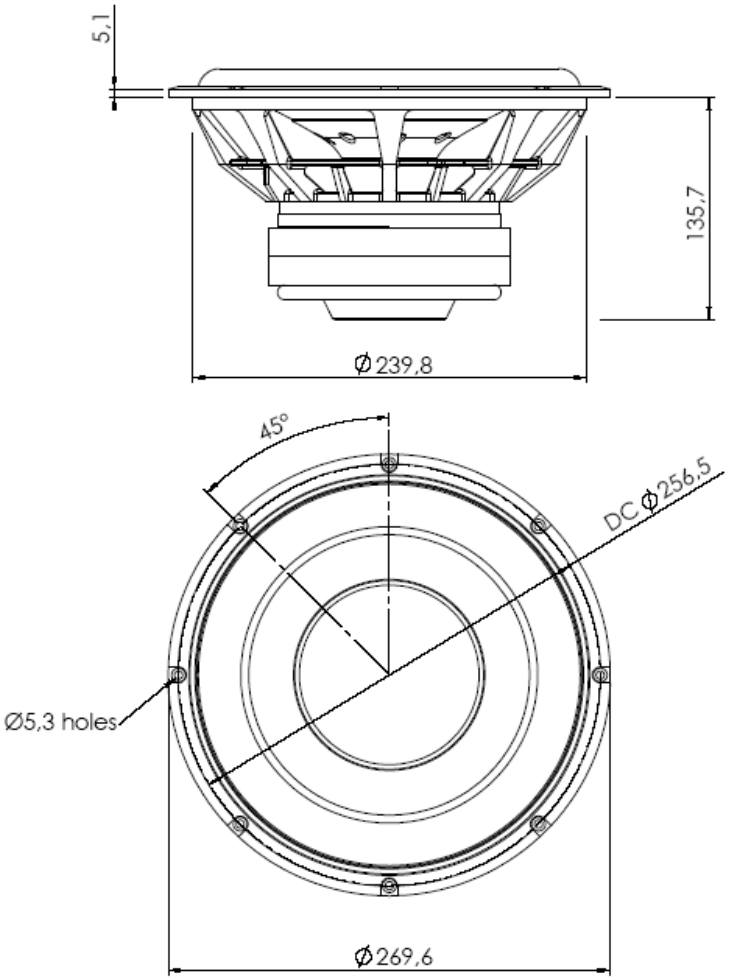
Electrical Data			
Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	3.1	ohm
Maximum impedance	Zo	71.5	ohm
DC resistance	Re	2.6	ohm
Voice coil inductance	Le	1.6	mH
Capacitor in series with x ohm	Cc	--	uF
T-S Parameters			
Resonance Frequency	fs	24.3	Hz
Mechanical Q factor	Qms	9.24	
Electrical Q factor	Qes	0.34	
Total Q factor	Qts	0.33	
Ratio fs/Qts	F	73	
Force factor	Bl	10.1	Tm
Mechanical resistance	Rms	1.48	Kg/s
Moving mass	Mms	89.7	g
Suspension compliance	Cms	0.48	mm/N
Effective cone diameter	D	21.2	cm
Effective piston area	Sd	352	cm^2
Equivalent volume	Vas	81.8	ltrs
Sensitivity		91	dB
Ratio BL/√(Re)		6.3	

Power handling		
100h RMS noise test (IEC)	175	W
Long-term Max System Power (IEC)	350	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power	--	W
Voice Coil and Magnet Parameters		
Voice coil diameter	51	mm
Voice coil height	33	mm
Voice coil layers	2	
Height of the gap	8	mm
Linear excursion +/-	12.5	mm
Max mech. excursion +/-	--	mm
Flux density of gap	--	mWb
Total useful flux	2.3	mWb
Diameter of magnet	147	mm
Height of magnet	35	mm
Weight of magnet	2.4	Kg

Frequency:



Mechanical Dimensions:



Tymphany™ and Peerless™ are trademarks of Tymphany Corporation. © 2006, Tymphany Corporation. All rights reserved. 073106