

XLS 10" Subwoofer

Peerless

Type Number: 830452

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 XLS - for "Extra Long Stroke" - these new audio transducers add even more excursion, and completely eliminate distortion. See architecture notes for <u>XLS Platform</u>

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

See application notes for XLS subwoofer

Go to Architecture Notes



Specs:

Electrical Data Nominal impedance Minimum impedance Maximum impedance DC resistance Voice coil inductance Capacitor in series with x ohm	Zn Zmin Zo Re Le Cc	8 4.9 53.3 3.4 4.3 22	ohm ohm ohm ohm mH uF
T-S Parameters Resonance Frequency Mechanical Q factor Electrical Q factor Total Q factor Force factor Mechanical resistance Moving mass Suspension compliance Effective cone diameter Effective piston area Equivalent volume Sensitivity (2.83V/1m) Ratio $BL/\sqrt{(Re)}$ Ratio fs/Qts	fs Qms Qes Qts Bl Rms Mms Cms D Sd Vas	18.9 2.63 0.18 0.17 17.5 6.12 135.3 0.52 21.2 352 89.7 88.4 112	Hz Tm Kg/s g mm/N cm cm ² Itrs dB

Power handling

100h RMS noise test (IEC)		W
Long-term Max Power (IEC 18.3)		W
Max linear SPL (rms) @ power	-	dB/W
Short Term Max power (IEC 18.2)	-	W
Voice Coil and Magnet Parameters		
Voice coil diameter	51	mm
Voice coil height	33	mm
Voice coil layers	4	
Height of the gap	8	mm
Linear excursion +/-		mm
Max mech. excursion +/-		mm
Flux density of gap	1.04	mWb
Total useful flux	2.5	mWb
Diameter of magnet	147	mm
Height of magnet	35	mm
Weight of magnet	2.42	Kg

Notes:

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





Mechanical Dimensions:830452



Tymphany™ and are trademarks of Tymphany Corporation. © 2009, Tymphany Corporation. All rights reserved. 012409