

XLS 12" Automotive



Type Number: 830515

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 XLS Platform

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

See application notes for XLS car subwoofer

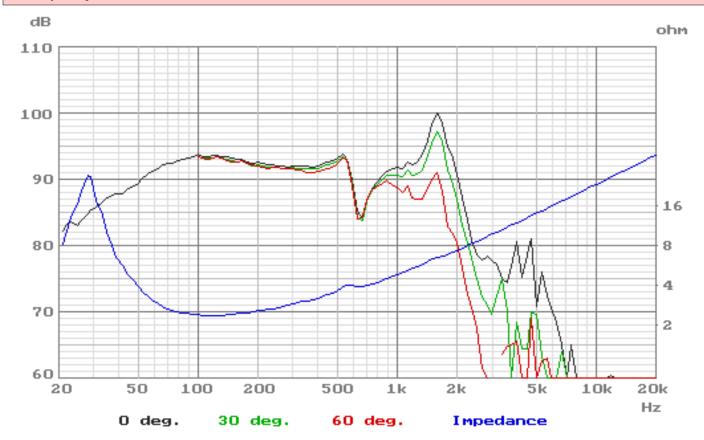
Go to Architecture Notes



Specs:

Electrical Data Nominal impedance	Zn	4	ohm	Power handling 100h RMS noise test (IEC)		W
Minimum impedance	Zmin	2.2	ohm	Long-term Max Power (IEC 18.3)		W
Maximum impedance	Zo	28.9	ohm	Max linear SPL (rms) @ power	Α	dB/W
DC resistance	Re	1.8	ohm	Short Term Max power (IEC 18.2)	-	W
Voice coil inductance	Le	1.9	mΗ	Voice Coil and Magnet Parameters		
Capacitor in series with x ohm	Сс	34	uF	Voice coil diameter	51	mm
T-S Parameters				Voice coil height	33	mm
Resonance Frequency	fs	28.2	Hz	Voice coil layers	4	
Mechanical Q factor	Qms	4.81		Height of the gap	8	mm
Electrical Q factor	Qes	0.32		Linear excursion +/-	1-1	mm
Total Q factor	Qts	0.3		Max mech. excursion +/-		mm
Force factor	BI	10.9	Tm	Flux density of gap	1.04	mWb
Mechanical resistance	Rms	4.37	Kg/s	Total useful flux	2.5	mWb
Moving mass	Mms	118.5	g	Diameter of magnet	147	mm
Suspension compliance	Cms	0.27	mm/N	Height of magnet	35	mm
Effective cone diameter	D	24.4	cm	Weight of magnet	2.42	Kg
Effective piston area	Sd	466	cm ²			
Equivalent volume	Vas	80.5	ltrs			
Sensitivity (2.83V/1m)		93.5	dB			
Ratio BL/√(Re)		94		Notes: IEC specs refer to IEC 60268-5 third edition.		
Ratio fs/Qts	F			All Tymphany products are RoHS compliant.		

Frequency: 830515



Mechanical Dimensions:830515

