

XLS 12" Subwoofer



Type Number: 830500

Features:

By introducing the range of Xtra Long Stroke (XLS) subwoofers, Peerless has pushed the performance limits for subwoofers. The XLS/subwoofer range will fulfil every demand for deep clean bass reproduction like active THX home theatre and Dolby Digital subwoofer applications. In the design the emphasis has been put in achieving extreme deep bass, long time reliability, high power handling, and very low distortion - also under very large sound pressures. The 12" XLS is available in several different configurations from small passive radiator assisted subwoofers to classical and car applications.



Specs:

Electrical Data

Nominal impedance	Zn	8	ohm
Minimum impedance	Zmin	4.7	ohm
Maximum impedance	Zo	64.2	ohm
DC resistance	Re	3.5	ohm
Voice coil inductance	Le	4.2	mH
Capacitor in series with x ohm	Cc	38	uF

T-S Parameters

Resonance Frequency	fs	18.1	Hz
Mechanical Q factor	Qms	3.7	
Electrical Q factor	Qes	0.21	
Total Q factor	Qts	0.2	
Ratio fs/Qts	F	--	
Force factor	Bl	17.6	Tm
Mechanical resistance	Rms	5.12	Kg/s
Moving mass	Mms	166.3	g
Suspension compliance	Cms	0.46	mm/N
Effective cone diameter	D	24.4	cm
Effective piston area	Sd	466	cm ²
Equivalent volume	Vas	139.2	ltrs
Sensitivity		90.6	dB
Ratio BL/√(Re)		90	

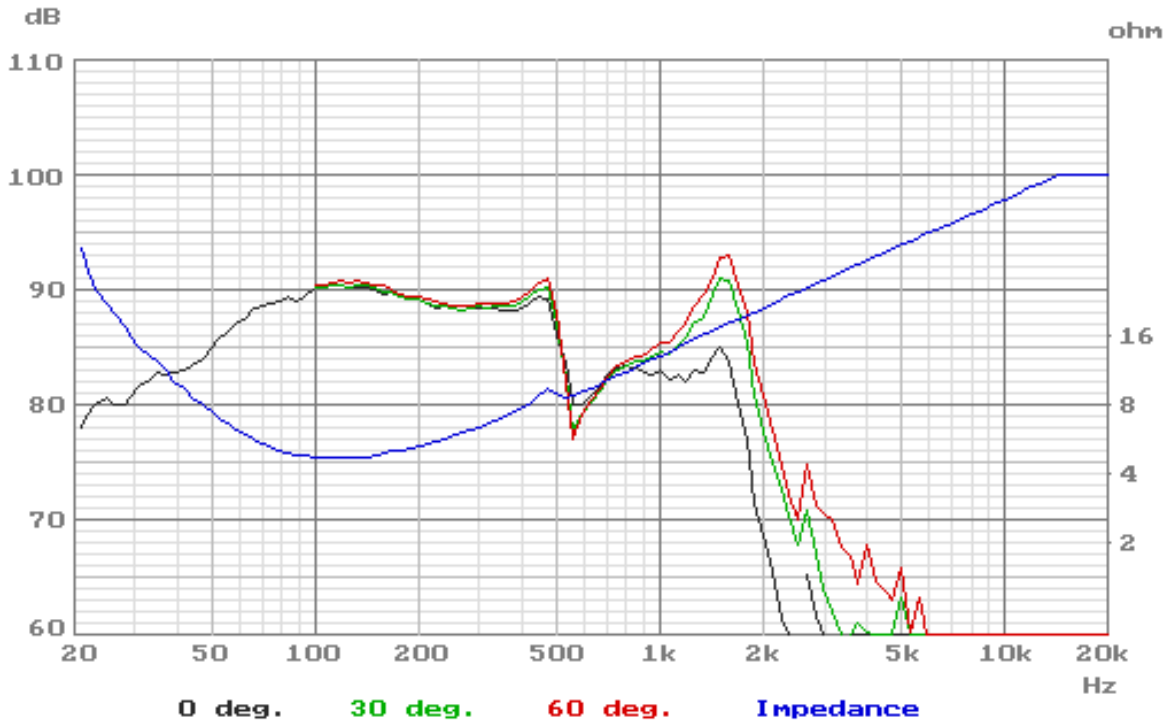
Power handling

100h RMS noise test (IEC)	--	W
Long-term Max System Power (IEC)	--	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	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

Frequency:



Mechanical Dimensions:

