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Peerless Data Sheet

SWR 269

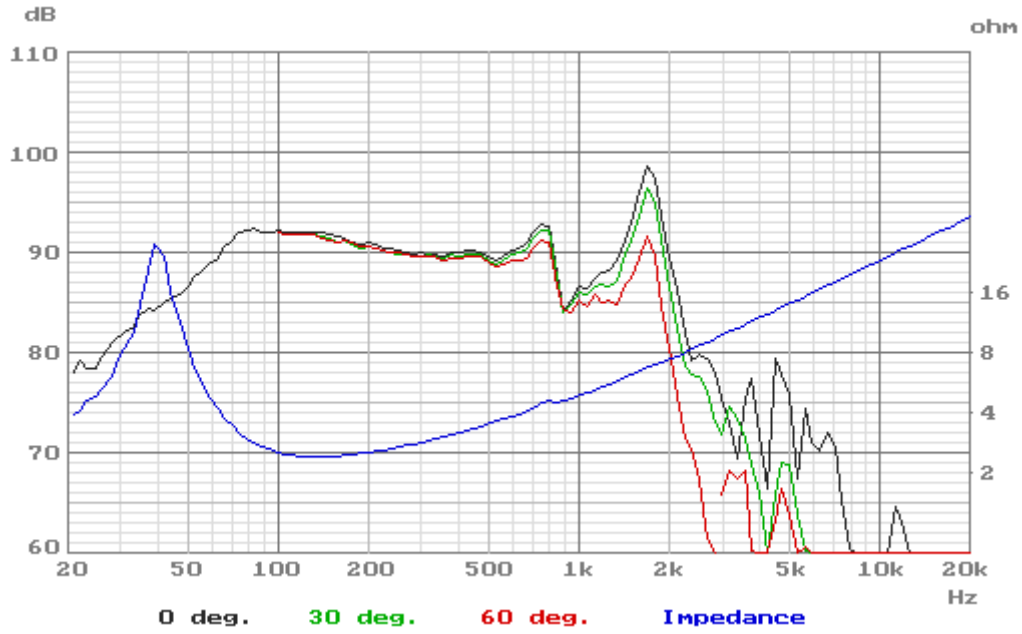
269 SWR 51 147 NX 4L ALP 4 ohm - Order ID: 830514

By introducing the new range of Xtra Long Stroke (XLS) subwoofers, Peerless has pushed the performance limits for subwoofers. The 10" XLS/subwoofer will fulfil every demand for deep clean bass reproduction in sealed cabinets from 14 liters.
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 10" XLS car subwoofer driver has been designed with a specially compounded strong rubber surround that has the strength to withstand the high pressures inside a small sealed box. The magnet is covered with a rubber cover engraved with the XLS logo. For reliable connection to the amplifier gold plated push terminals are fitted.

SWR 269

Thiele Small parameters:			Free air	Common	Baffled
Nominal impedance	Zn	(ohm)		4	
Minimum impedance/at freq.	Zmin	(ohm/Hz)		2.4/133	
Maximum impedance	Zo	(ohm)		28.5	
DC resistance	Re	(ohm)		1.8	
Voice coil inductance	Le	(mH)		1.5	
Capacitor in series with 4 ohm (for impedance compensation)	Cc	(µF)		32	
Resonance Frequency	fs	(Hz)	39.4		38.8
Mechanical Q factor	Qms		6.37		6.47
Electrical Q factor	Qes		0.42		0.43
Total Q factor	Qts		0.39		0.40
F (Ratio fs/Qts)	F	(Hz)			96
Mechanical resistance	Rms	(Kg/s)		4.55	
Moving mass	Mms	(g)	117.0		121.0
Suspension compliance	Cms	(mm/N)		0.14	
Effective cone diameter	D	(cm)		20.6	
Effective piston area	Sd	(cm²)		333	
Equivalent volume	VAS	(ltrs)		21.4	
Force factor	Bl	(N/A)		11.0	
Reference voltage sensitivity Re 2.83V 1m at 133 Hz (Measured)		(dB)			92.2

Magnet and voice coil parameters:			
Voice coil diameter	d	(mm)	51
Voice coil length	h	(mm)	33
Voice coil layers	n		4
Flux density in gap	B	(T)	1.04
Total useful flux		(mWb)	2.50
Height of the gap	hg	(mm)	8
Diameter of magnet	dm	(mm)	147
Height of magnet	hm	(mm)	35
Weight of magnet		(kg)	2.42



Measuring methods and conditions are stated in Peerless Standard for Acoustic Measurements (PSAM)