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Peerless Data Sheet

SWR 269

269 SWR 51 147 NX ALP 4L XLS 8/5 ohm - Order ID: 830452

By introducing the new 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 10" XLS is available in several different configurations from small passive radiator assisted subwoofers to classical and car applications.



SWR 269

Thiele Small parameters:

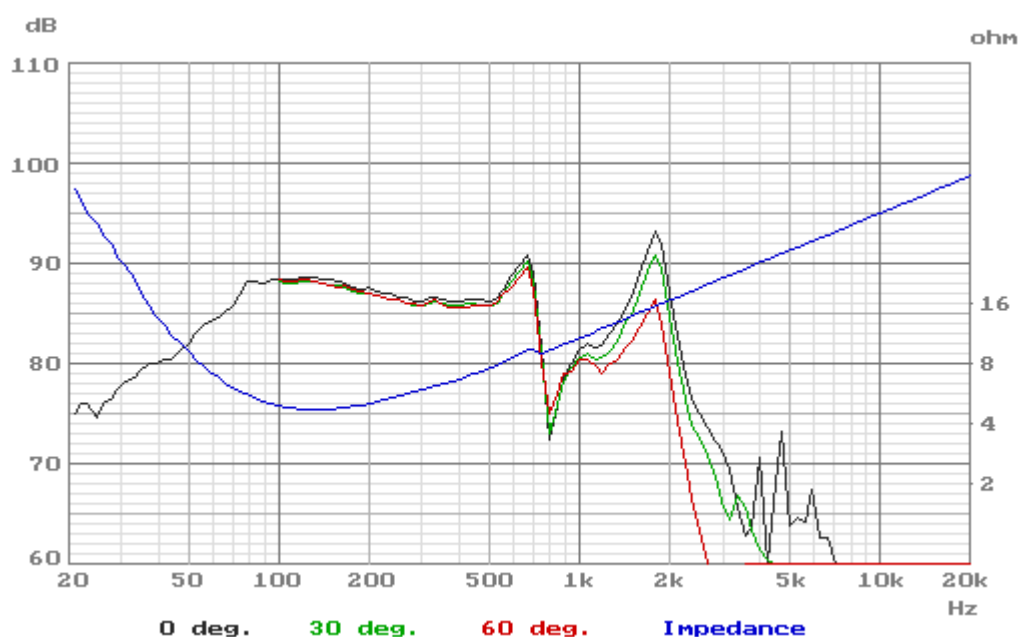
Nominal impedance	Zn	(ohm)
Minimum impedance/at freq.	Zmin	(ohm/Hz)
Maximum impedance	Zo	(ohm)
DC resistance	Re	(ohm)
Voice coil inductance	Le	(mH)
Capacitor in series with 8 ohm (for impedance compensation)	Cc	(μF)
Resonance Frequency	fs	(Hz)
Mechanical Q factor	Qms	
Electrical Q factor	Qes	
Total Q factor	Qts	
F (Ratio fs/Qts)	F	(Hz)
Mechanical resistance	Rms	(Kg/s)
Moving mass	Mms	(g)
Suspension compliance	Cms	(mm/N)
Effective cone diameter	D	(cm)
Effective piston area	Sd	(cm²)
Equivalent volume	VAS	(ltrs)
Force factor	Bl	(N/A)
Reference voltage sensitivity Re 2.83V 1m at 115 Hz (Measured)		(dB)

Free air	Common	Baffled
	8	
	4.9/115	
	53.3	
	3.4	
	4.3	
	22	
18.9		18.9
2.63		2.63
0.18		0.18
0.17		0.17
		112
135.3	6.12	135.4
	0.52	
	21.2	
	352	
	89.7	
	17.5	
		88.4

Magnet and voice coil parameters:

Voice coil diameter	d	(mm)
Voice coil length	h	(mm)
Voice coil layers	n	
Flux density in gap	B	(T)
Total useful flux		(mWb)
Height of the gap	hg	(mm)
Diameter of magnet	dm	(mm)
Height of magnet	hm	(mm)
Weight of magnet		(kg)

51
33
4
1.04
2.50
8
147
35
2.42



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