



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.

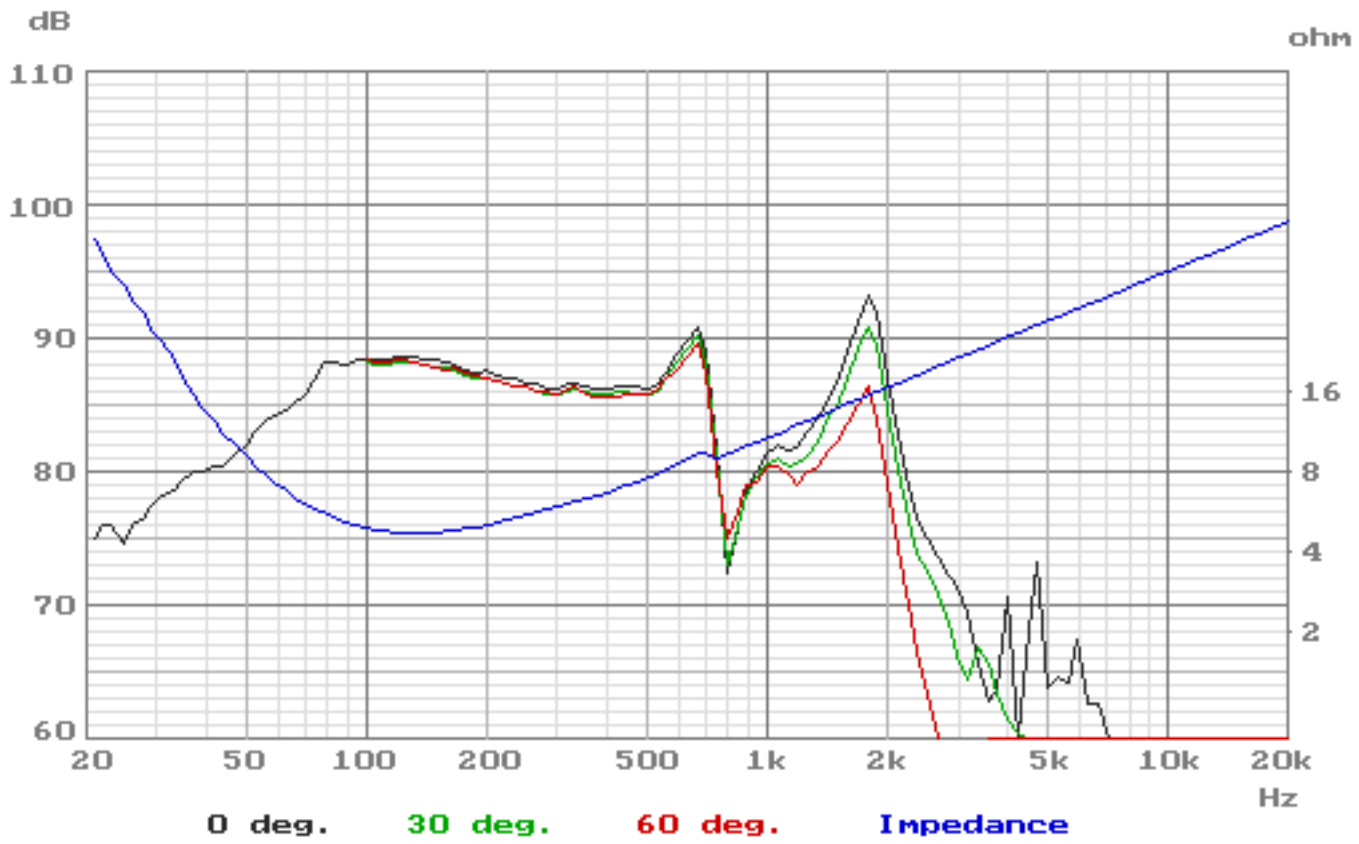


SWR 269Thiele Small parameters:

		Free air	Common	Baffled
Nominal impedance	Zn (ohm)		8	
Minimum impedance/at freq.	Zmin (ohm/Hz)		4.9/115	
Maximum impedance	Zo (ohm)		53.3	
DC resistance	Re (ohm)		3.4	
Voice coil inductance	Le (mH)		4.3	
Capacitor in series with 8 ohm (for impedance compensation)	Cc (μF)		22	
Resonance Frequency	fs (Hz)	18.9		18.9
Mechanical Q factor	Qms	2.63		2.63
Electrical Q factor	Qes	0.18		0.18
Total Q factor	Qts	0.17		0.17
F (Ratio fs/Qts)	F (Hz)			112
Mechanical resistance	Rms (Kg/s)		6.12	
Moving mass	Mms (g)	135.3		135.4
Suspension compliance	Cms (mm/N)		0.52	
Effective cone diameter	D (cm)		21.2	
Effective piston area	Sd (cm ²)		352	
Equivalent volume	VAS (ltrs)		89.7	
Force factor	Bl (N/A)		17.5	
Reference voltage sensitivity Re 2.83V 1m at 115 Hz (Measured)	(dB)			88.4

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)