

Subwoofer

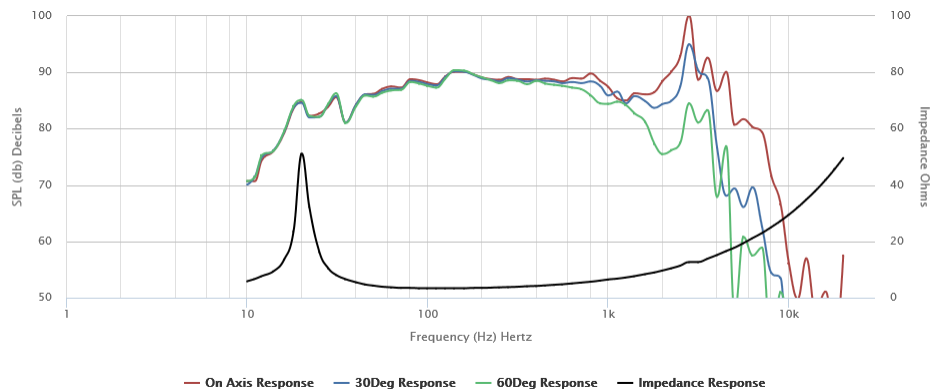
This 12 inch 4 ohm member of the XXLS product family has all the design features suitable for a high performance, high excursion subwoofer driver. The motor features a double ferrite magnet motor, supporting high excursion, and aluminium shorting rings and pole extenders, lowering and linearizing the inductance of the overhung voice coil. The Aluminium cone is vented under the dust cap, to reduce air compression. The suspension system features a low-creep rubber surround, and a nomex spider, ensuring long-term reliability under high power conditions. The product also features a rigid cast aluminium basket.



XXLS-P835017

SPECIFICATIONS								
DC Resistance	Revc	Ω	2.51	±5.0%	Moving Mass	Mms	g	131.4
Minimum Impedance	Zmin	Ω	3.36	±7.5%	Suspension Compliance	Cms	um/N	415.1
Voice Coil Inductance	Le	mH	0.53	-	Effective Cone Diameter	D	cm	24.8
Resonant Frequency	fs	Hz	21.55	15%	Effective Piston Area	Sd	cm2	483.1
Mechanical Q Factor	Qms	-	10.83	-	Equivalent Volume	Vas	L	136.04
Electrical Q Factor	Qes	-	0.4	-	Motor Force Factor	BL	T•m	10.58
Total Q Factor	Qts	-	0.39	-	Motor Efficiency Factor	β	(T•m2)/Ω	44.5
Ratio	fs/Qts	-	55.97	-	Voice Coil Former Material	VCfm	-	GSV
Half Space Sensitivity	dB@2.83V/1m	dB	88.57	±1.01	Voice Coil Inner Diameter	VCd	mm	51
Sensitivity	1W/1m	dB	84.8	±1.01	Gap Height	Gh	mm	8
Rated Noise Power (IEC 2685 18.1)	P	W	120	-	Maximum Linear Excursion	Xmax	mm	12.3
Test Spectrum Bandwidth	1300 Hz - 20k Hz	12 dB/Oct	20Hz - 4kHz	-	Ferrofluid Type	FF	-	N/A
Energy Bandwidth Product	EBP	(1/Qes)•fs	55	-	Transducer Size	-	-	12in
					Transducer Mass	-	Kg	6.4

FREQUENCY & IMPEDANCE RESPONSE



MECHANICAL 2D DRAWING

