TYMPHANY

Transducer Specification Sheet

Model Number: SLS-P830669
Product Line: Peerless Silver

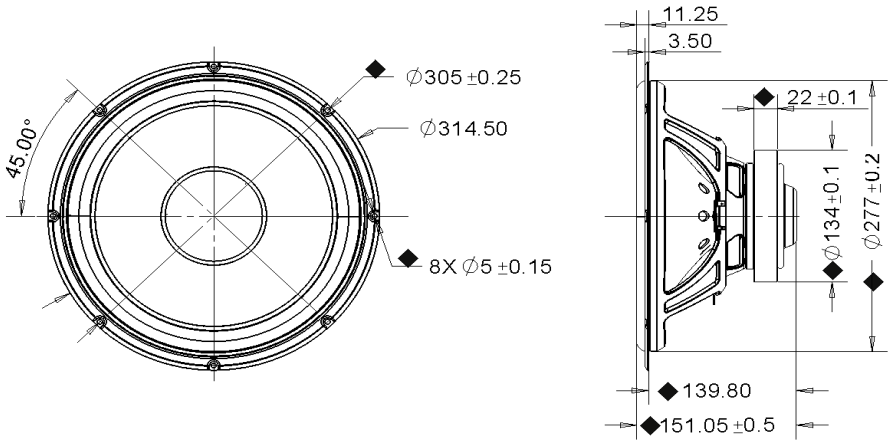
Revision: Rev 1_0
Date: 24-Nov-09

Peerless

Product Description:

The SLS line combines high quality performance with an affordable design. This 12 inch 8 ohm member of the SLS family features a rigid steel basket, a coated paper cone, and a ferrite magnet motor with aluminium shorting ring for improved distortion performance.

Mechanical 2D Drawing:



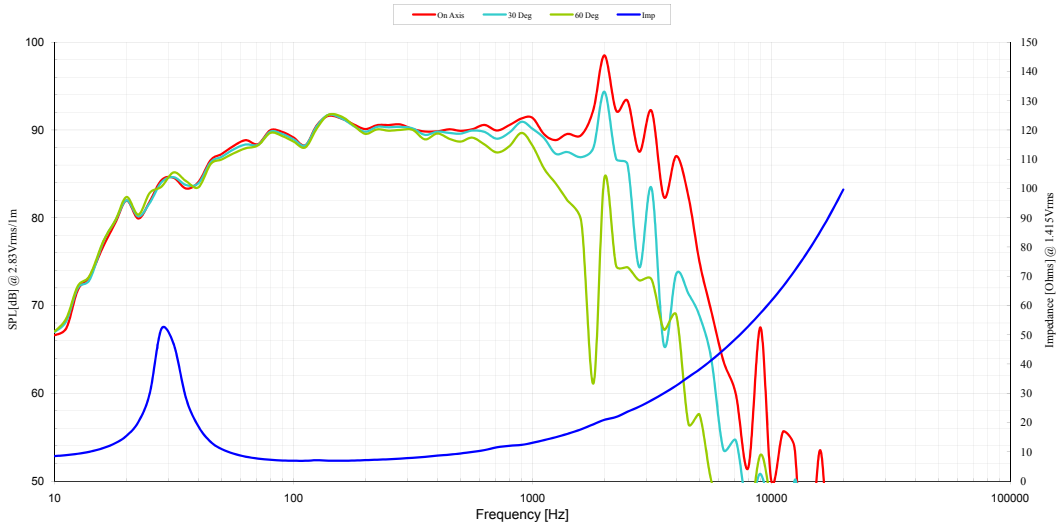
Specifications:

DC Resistance	R_{evc}	Ω	5.6	5.0%
Minimum Impedance	Z_{min}	Ω	7.0	7.5%
Voice Coil Inductance	L_e	mH	1.12	
Resonant Frequency	f_s	Hz	31	15.0%
Mechanical Q Factor	Q_{ms}	-	7.1	
Electrical Q Factor	Q_{es}	-	0.58	
Total Q Factor	Q_{ts}	-	0.54	
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	58	
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	89.8	+/-1.0 [1]
Sensitivity @ 1W/1m	1W/1m	dB	86.8	+/-1.0 [1]
Rated Noise Power (IEC 2685 18.1)	P	W	100	
Test Spectrum Bandwidth	30Hz - 2kHz		12 dB/Oct	

Energy Bandwidth Product	EBP	$(1/Q_{es})\cdot f_s$	53
Moving Mass	M_{ms}	g	74.11
Suspension Compliance	C_{ms}	um/N	345.0
Effective Cone Diameter	D	cm	25.8
Effective Piston Area	S_D	cm^2	522.8
Equivalent Volume	V_{as}	L	132.42
Motor Force Factor	BL	T·m	11.88
Motor Efficiency Factor	β	$(T\cdot m^2)/\Omega$	25.18
Voice Coil Former Material	VC_{fm}	-	Glass Fiber
Voice Coil Inner Diameter	VC_d	mm	38.4
Gap Height	Gh	mm	8.0
Maximum Linear Excursion	X_{max}	mm	8.3
Ferrofluid Type	FF		N/A
Transducer Size	-	inch	12
Transducer Mass	-	Kg	3.2

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:



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