

Model Number: SLS-85S25CP-04-04
 Product Line: Peerless Gold

Revision: Rev 1
 Date: 20-Nov-13

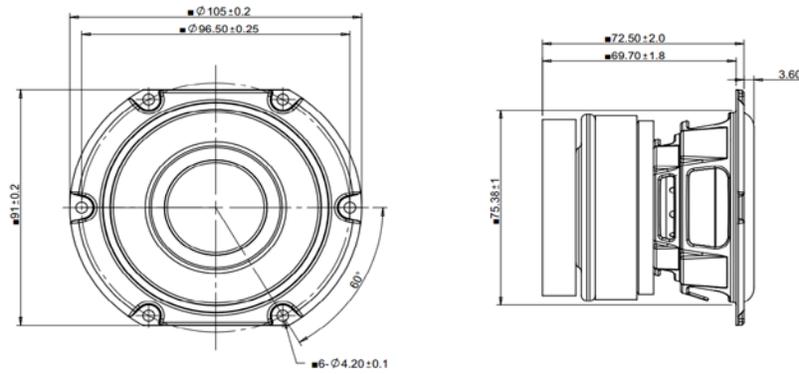


Product Description:

The SLS line combines high quality performance with an affordable design. This 3.5 inch 4 Ω member of the SLS family features a rigid steel basket, a paper cone, and a ferrite magnet motor with aluminium shorting ring for improved distortion performance.



Mechanical 2D Drawing:



Specifications:

DC Resistance	R_{vc}	Ω	3.2	$\pm 7.5\%$	Energy Bandwidth Product	EBP	$(1/Q_{ms}) \cdot f_s$	198
Minimum Impedance	Z_{min}	Ω	4.4	$\pm 7.5\%$	Moving Mass	M_{ms}	g	4.73
Voice Coil Inductance	L_e	mH	0.16		Suspension Compliance	C_{ms}	um/N	1017.5
Resonant Frequency	f_s	Hz	73	$\pm 15\%$	Effective Cone Diameter	D	cm	6.3
Mechanical Q Factor	Q_{ms}	-	5.4		Effective Piston Area	S_D	cm ²	30.8
Electrical Q Factor	Q_{es}	-	0.37		Equivalent Volume	V_{as}	L	1.388
Total Q Factor	Q_{ts}	-	0.35		Motor Force Factor	BL	T-m	4.31
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	212		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	5.85
Half Space Sensitivity @ 2.83V	$dB @ 2.83V/1m$	dB	86.0	$\pm 1.0^1$	Voice Coil Former Material	VC_{fm}	-	KSV
Sensitivity @ 1W/1m	$1W/1m$	dB	82.0	$\pm 1.0^1$	Voice Coil Inner Diameter	VC_d	mm	25.73
Rated Noise Power (IEC 2685 18.1)	P	W	30W		Gap Height	Gh	mm	6.00
Test Spectrum Bandwidth	Fs-2.5KHZ	12 dB/Oct			Maximum Linear Excursion	X_{max}	mm	4.50
					Ferrofluid Type	FF	-	N/A
					Transducer Size	-	-	3.5 inch
					Transducer Mass	-	Kg	0.88

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:

