

Model No.: PLS-P830985

Rev: 1

Product Line: Peerless

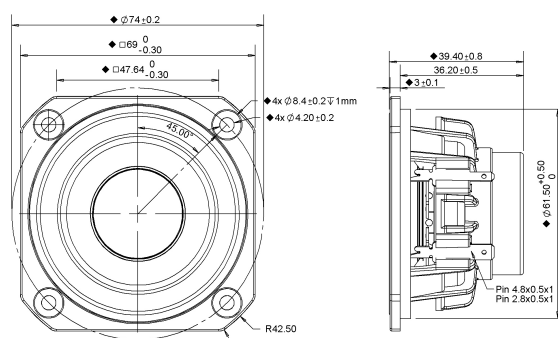
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Product Description

This 2.5 inch 4 ohm member of the PLS family sets a high standard for compact full range drivers intended for applications such as television soundbars and compact music systems. Design features in this family include a damped plastic basket with venting under the spider to aid cooling of the motor, a neodymium magnet motor with copper cap to lower coil inductance, providing low distortion at low frequencies and extended high frequency response. A black anodized aluminium cone is employed on the driver, along with a black anodized aluminium dust cap coupled directly to the voice coil. Additionally, the cones come equipped with special-designed large roll rubber surrounds, which allow for a dynamic linear response to high excursion input signals.



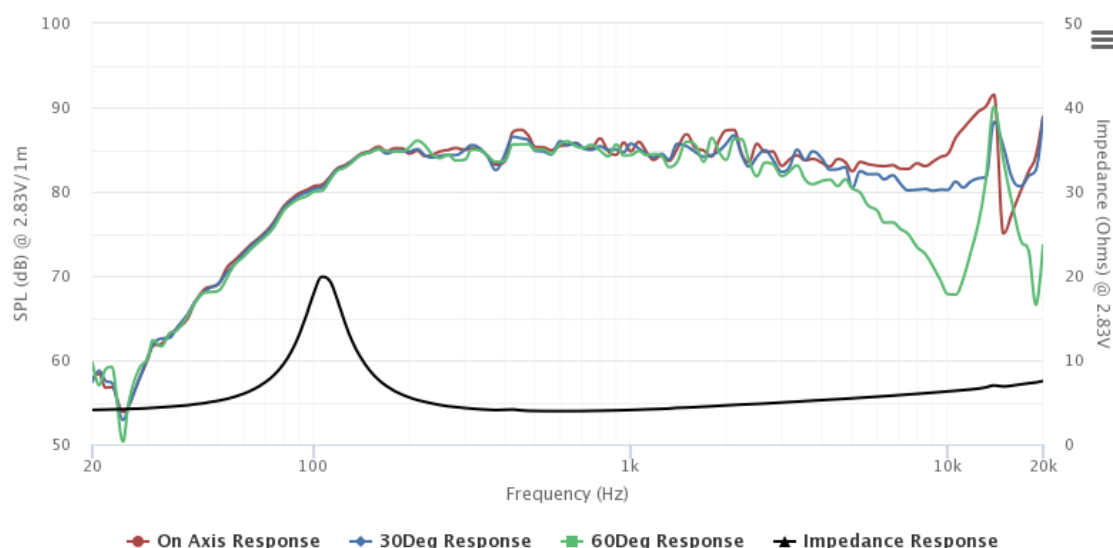
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	3.63	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	3.95	7.5%	Moving Mass	Mms	g	1.9
Voice Coil Inductance	Le	mH	0.03		Suspension Compliance	Cms	um/N	963
Resonant Frequency	Fs	Hz	117.16	15%	Effective Cone diameter	D	cm	5.2
Mechanical Q Factor	Qms		4.08		Effective Piston Area	Sd	cm^2	21.2
Electrical Q Factor	Qes	0.75			Effective Volume	Vas	L	0.61
Total Q Factor	Qts		0.63		Motor Force Factor	BL	Tm	2.61
Ratio Fs/Qts	F	Fs/Qts	184.79		Motor Efficiency Factor	β	(T*M^2)/Ohms	1.9
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	85.4	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	82.3	+/- 1.0db	Voice coil inner diameter	VCd	mm	25.73
Gap Height	Gh	mm	3		Rated Noise Power	P	W	30
Maximum Linear Excursion	Xmax	mm	1.7		Test Spectrum Bandwidth		100Hz - 20kHz	
Ferrofluid Type	FF				Driver Size	Inch	2.5 in	
Driver Mass	Kg	0.14						

Frequency and Impedance Response



Highcharts.com