# Driver Specification Sheet

Model No:: PLS-P830986

Product Line: Peerless

Rev: 1

Last Update: 2017-04-25 21:32:09

Product Description

This 3 inch 8 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
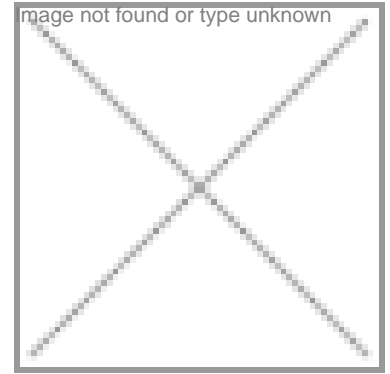
Mechanical Drawing

Specifications
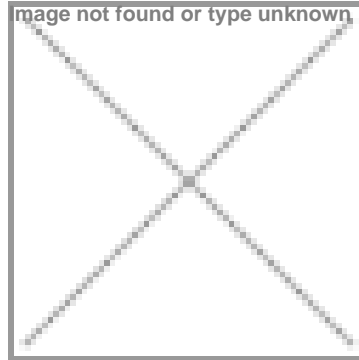
Parameter	Symbol	Unit	Value	Tol	Parameter	Symbol	Unit	Value
DC Resistance	Revc	Ohms	6.22	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	6.62	7.5%	Moving Mass	Mms	g	2.6
Voice Coil Inductance	Le	mH	0.05		Suspension Compliance	Cms	um/N	897.1
Resonant Frequency	Fs	Hz	105.05	15%	Effective Cone diameter	D	cm	5.9
Mechanical Q Factor	Qms		5.15		Effective Piston Area	Sd	cm^2	27.3
Electrical Q Factor	Qes		0.89		Effective Volume	Vas	L	0.94
Total Q Factor	Qts		0.76		Motor Force Factor	BL	Tm	3.43
Ratio Fs/Qts	F	Fs/Qts	137.86		Motor Efficiency Factor	ß	(T*M^2)/Ohms	1.9
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	84.02	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	83.2	+/- 1.0db	Voice coil inner diameter	VCd	mm	25.73
Gap Height	Gh	mm	4		Rated Noise Power	P	W	25
Maximum Linear Excursion	Xmax	mm	2.1		Test Spectrum Bandwidth	100Hz - 20kHz		
Ferrofluid Type	FF				Driver Size	Inch	3 in	
Driver Mass	Kg		0.21					

Frequency and Impedance Response