Driver Specification Sheet

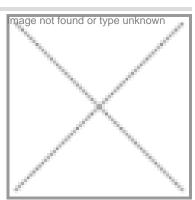
Rev:

Model No:: PLS-50F25AL01-04

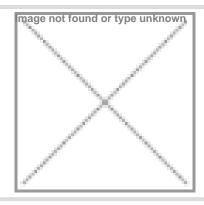
Product Line: Tymphany Last Update: 2017-04-25 21:32:09

Product Description

This 2 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 stiff steel basket with venting under the spider to aid cooling of the motor, a ferrite 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, 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 at high excursion.



Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	3.44	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	4.42	7.5%	Moving Mass	Mms	g	1.5
Voice Coil Inductance	Le	mΗ	0.03		Suspension Compliance	Cms	um/N	576.3
Resonant Frequency	Fs	Hz	171.46	15%	Effective Cone diameter	D	cm	4.4
Mechanical Q Factor	Qms		5.1		Effective Piston Area	Sd	cm^2	15.2
Electrical Q Factor	Qes	0.89			Effective Volume	Vas	L	0.19
Total Q Factor	Qts		0.76		Motor Force Factor	BL	Tm	2.49
Ratio Fs/Qts	F	Fs/Qts	225.9		Motor Efficiency Factor	ß	(T*M^2)/Ohms	1.8
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	84.13	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	81.6	+/- 1.0db	Voice coil inner diameter	VCd	mm	25.73
Gap Height	Gh	mm	2		Rated Noise Power	Р	W	7
Maximum Linear Excursion	Xmax	mm	2.2		Test Spectrum Bandwidth	150Hz~20KHz		
Ferrofluid Type	FF				Driver Size	Inch	2 in	
Driver Mass	Kg	0.32						

Frequency and Impedance Response

