

Model No.: PLS-65F25AL01-08
 Product Line: Tymphany

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Product Description

This 2.5 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 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	6.06	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	7.31	7.5%	Moving Mass	Mms	g	2.1
Voice Coil Inductance	Le	mH	0.05		Suspension Compliance	Cms	um/N	1049
Resonant Frequency	Fs	Hz	107.62	15%	Effective Cone diameter	D	cm	5.3
Mechanical Q Factor	Qms		4.54		Effective Piston Area	Sd	cm^2	22.1
Electrical Q Factor	Qes	0.81			Effective Volume	Vas	L	0.72
Total Q Factor	Qts	0.69			Motor Force Factor	BL	Tm	3.25
Ratio Fs/Qts	F	Fs/Qts	156.43		Motor Efficiency Factor	β	(T*M^2)/Ohms	1.7
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	83.08	+/- 1.0db	Voice coil former Material	VCfm		ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	82.7	+/- 1.0db	Voice coil inner diameter	VCd	mm	25.73
Gap Height	Gh	mm	3		Rated Noise Power	P	W	25
Maximum Linear Excursion	Xmax	mm	2.6		Test Spectrum Bandwidth		100Hz~20KHz	
Ferrofluid Type	FF				Driver Size	Inch	2.5 in	
Driver Mass	Kg	0.34						

Frequency and Impedance Response

