

Model No.: PLS-75N25AL02-04
 Product Line: Tymphany

Rev: 1
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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, 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.



Specifications

DC Resistance	Revc	Ohms	3.65	5.0%	Energy Bandwidth Product	EBP	$(1/Q_{es}) \cdot f_s$
Minimum Impedance	Zmin	Ohms	4.41	7.5%	Moving Mass	Mms	g
Voice Coil Inductance	Le	mH	0.05		Suspension Compliance	Cms	um/N
Resonant Frequency	Fs	Hz	96.06	15%	Effective Cone diameter	D	cm
Mechanical Q Factor	Qms		5.76		Effective Piston Area	Sd	cm ²
Electrical Q Factor	Qes	0.76			Effective Volume	Vas	L
Total Q Factor	Qts	0.67			Motor Force Factor	BL	Tm
Ratio Fs/Qts	F	Fs/Qts	142.95		Motor Efficiency Factor	β	$(T \cdot M^2) / \text{Ohms}$
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	86.26	+/- 1.0db	Voice coil former Material	VCfm	ASV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	83.7	+/- 1.0db	Voice coil inner diameter	VCd	mm
Gap Height	Gh	mm	4		Rated Noise Power	P	W
Maximum Linear Excursion	Xmax	mm	2.3		Test Spectrum Bandwidth		100Hz-20KHz
Ferrofluid Type	FF				Driver Size	Inch	3 in
Driver Mass	Kg	0.21					

Frequency and Impedance Response

