

Model Number: PLS-65F25AL02-08 Revision: Rev 2_0
Product Line: Peerless Gold Date: 2-Aug-12

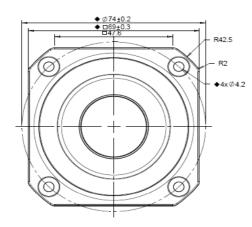


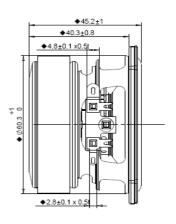
Product Description:

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 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 2D Drawing:





Specifications:

DC Resistance	R _{evc}	Ω	6.1	±7.5%	Energy Bandwidth Product	EBP	(1/Q _{es})·f _s	128
Minimum Impedance	Z_{min}	Ω	7.3	±7.5%	Moving Mass	M_{ms}	g	2.07
Voice Coil Inductance	L _e	mH	0.05		Suspension Compliance	C_{ms}	um/N	1124.7
Resonant Frequency	fs	Hz	104	±15%	Effective Cone Diameter	D	cm	5.3
Mechanical Q Factor	Q_{ms}	-	4.8		Effective Piston Area	SD	cm ²	22.1
Electrical Q Factor	Q _{es}	-	0.81		Equivalent Volume	Vas	L	0.769
Total Q Factor	Q_{ts}	-	0.70		Motor Force Factor	BL	T⋅m	3.19
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	150		Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	1.67
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	83.3	±1.0 1	Voice Coil Former Material	VC_{fm}	-	ASV
Sensitivity @ 1W/1m	1W/1m	dB	82.1	±1.0 1	Voice Coil Inner Diameter	VC_d	mm	25.73
					Gap Height	Gh	mm	3.00
Rated Noise Power (IEC 2685 18.1)	P	W	10		Maximum Linear Excursion	X_{max}	mm	2.55
Test Spectrum Bandwidth	lwidth 100Hz~20KHz		12 d	B/Oct	Ferrofluid Type	FF		N/A
·					Transducer Size	-	-	2.5 inch
iston Band Sensitivity Tolerance					Transducer Mass	-	Kg	0.34

Frequency and Impedance Response:

