

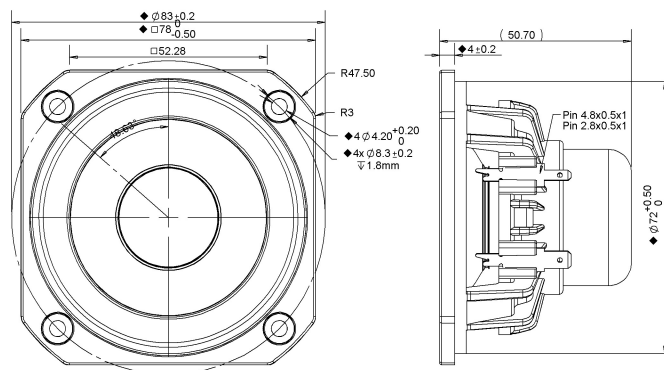
Full Range

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.



PLS-P830987

MECHANICAL 2D DRAWING



SPECIFICATIONS

DC Resistance	Revc	Ω	6.23	$\pm 5.0\%$	Moving Mass	Mms	g	2.5
Minimum Impedance	Zmin	Ω	6.58	$\pm 7.5\%$	Suspension Compliance	Cms	um/N	1000.3
Voice Coil Inductance	Le	mH	0.05	-	Effective Cone Diameter	D	cm	5.9
Resonant Frequency	fs	Hz	100.17	15%	Effective Piston Area	Sd	cm ²	27.3
Mechanical Q Factor	Qms	-	6.09	-	Equivalent Volume	Vas	L	1.05
Electrical Q Factor	Qes	-	1.11	-	Motor Force Factor	BL	T•m	2.98
Total Q Factor	Qts	-	0.94	-	Motor Efficiency Factor	β	(T•m ²)/ Ω	1.4
Ratio	fs/Qts	-	106.34	-	Voice Coil Former Material	VCfm	-	ASV
Half Space Sensitivity	dB@2.83V/1m	dB	83.23	± 1.01	Voice Coil Inner Diameter	VCd	mm	25.73
Sensitivity	1W/1m	dB	82.4	± 1.01	Gap Height	Gh	mm	4
Rated Noise Power (IEC 268-5 18.1)	P	W	25	-	Maximum Linear Excursion	Xmax	mm	2.1
Test Spectrum Bandwidth		12 dB/Oct	100Hz - 20kHz	-	Ferrofluid Type	FF	-	
Energy Bandwidth Product	EBP	(1/Qes)•fs		-	Transducer Size		-	3 in
				-	Transducer Mass		Kg	0.22

FREQUENCY & IMPEDANCE RESPONSE

