

Model Number: PMT-40N25AL01-04
Product Line: Peerless Silver

Revision: Rev 2
Date: 12-Mar-14

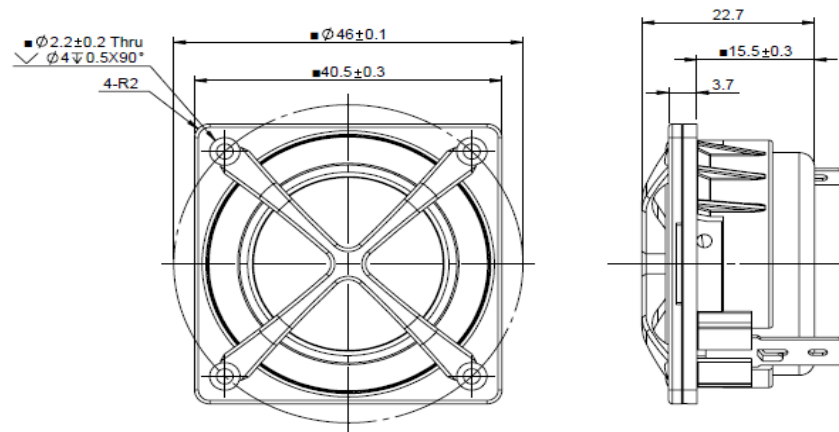


Product Description:

This 25 mm 4 Ω compact Premium Micro Transducer is designed for computer, television array, and similar applications. It features a neodymium-iron-boron magnet, a light aluminium cone, and a high-temperature polycarbonate frame. The PMT family's transducers feature low resonant frequencies and a full range bandwidth.



Mechanical 2D Drawing:

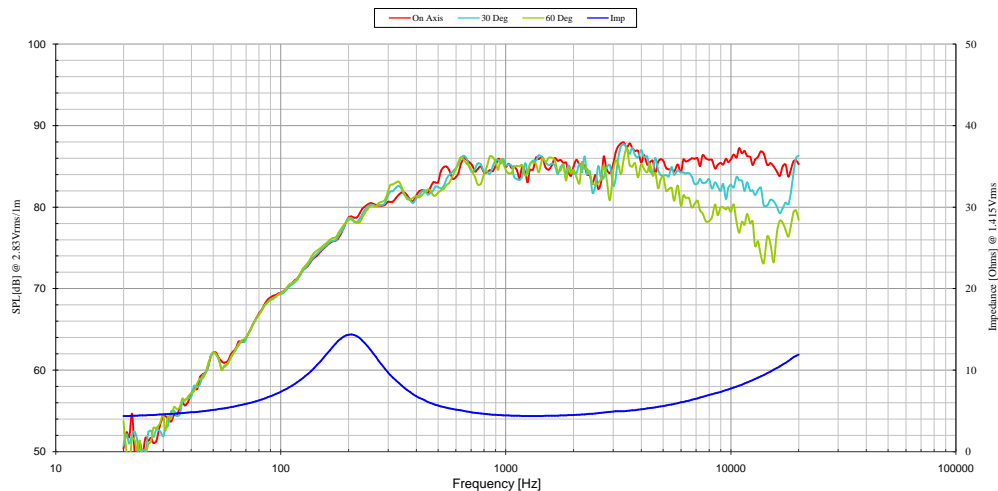


Specifications:

DC Resistance	R_{dc}	Ω	3.7	$\pm 7.5\%$	Energy Bandwidth Product	EBP	$(1/Q_{es}) \cdot f_s$	356
Minimum Impedance	Z_{min}	Ω	4.4	$\pm 7.5\%$	Moving Mass	M_{ms}	g	1.24
Voice Coil Inductance	L_e	mH	0.08		Suspension Compliance	C_{ms}	um/N	451.3
Resonant Frequency	f_s	Hz	215	$\pm 15\%$	Effective Cone Diameter	D	cm	3.2
Mechanical Q Factor	Q_{ms}	-	2.1		Effective Piston Area	S_D	cm ²	8.0
Electrical Q Factor	Q_{es}	-	0.60		Equivalent Volume	V_{as}	L	0.047
Total Q Factor	Q_{ts}	-	0.47		Motor Force Factor	BL	T-m	3.20
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	458		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	2.77
Half Space Sensitivity @ 2.83V	$dB @ 2.83V/1m$	dB	85.4	$\pm 1.0^1$	Voice Coil Former Material	VC _m	-	KSV
Sensitivity @ 1W/1m	$1W/1m$	dB	82.1	$\pm 1.0^1$	Voice Coil Inner Diameter	VC _d	mm	25.50
					Gap Height	Gh	mm	2.00
Rated Noise Power (IEC 2685 18.1)	P	W	5		Maximum Linear Excursion	X_{max}	mm	1.90
Test Spectrum Bandwidth	100Hz-20KHz	12 dB/Oct			Ferrofluid Type	FF	-	APG834
					Transducer Size	-	-	25 mm
					Transducer Mass	-	Kg	0.066

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:



F088-0713A