

Model Number: XT25SC90-04 Revision: Rev 1_0
Product Line: Peerless Gold Date: 1-Apr-10

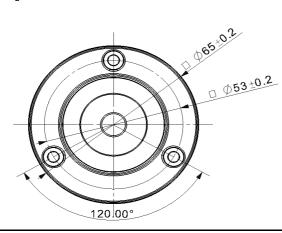


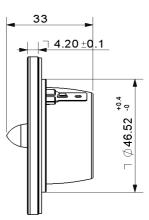
Product Description:

This member of the XT tweeter family utilizes two Tymphany technologies to deliver exceptional sound quality: the ring radiator patent, and the central waveguide patent. This model features a 4 ohm 25 mm voice coil, mounted in a neodymium magnet motor. The tweeter also features a rear chamber to create extended low frequency response. The faceplate features recessed mounting holes which minimizes reflections off of mounting screws.



Mechanical 2D Drawing:





Specifications:

DC Resistance	Revo	Ω	3.2	5.0%	Energy Bandwidth Product	EBP	(1/Q _{es})·f _s	773
Minimum Impedance	Z _{min}	Ω	3.61	7.5%	Moving Mass	M _{ms}	g	0.31
Voice Coil Inductance	L _e	mH	0.01		Suspension Compliance	C _{ms}	um/N	118.5
Resonant Frequency	fs	Hz	825	15.0%	Effective Cone Diameter	D	cm	3.3
Mechanical Q Factor	Q_{ms}	-	7.2		Effective Piston Area	S_D	cm ²	8.6
Electrical Q Factor	Q _{es}	-	1.07		Equivalent Volume	V _{as}	L	0.01
Total Q Factor	Q_{ts}	-	0.93		Motor Force Factor	BL	T·m	2.18
Ratio f _s / Q _{ts}	F	f_s / Q_{ts}	888		Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	1.49
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	90.1	+/-1.0 ¹	Voice Coil Former Material	VC_{fm}	-	ALU
Sensitivity @ 1W/1m	1W/1m	dB	89.9	+/-1.0 ¹	Voice Coil Inner Diameter	VC_d	mm	25.8
					Gap Height	Gh	mm	2.0
Rated Noise Power (IEC 2685 18.1)	Р	W	100		Maximum Linear Excursion	X_{max}	mm	0.05
Test Spectrum Bandwidth	800Hz - 20kHz		12 dB/Oct		Ferrofluid Type	FF		N/A
•					Transducer Size	-	inch	1
1 - Piston Band Sensitivity Tolerance					Transducer Mass	=	kg	0.074

Frequency and Impedance Response:

