

Model Number: XT19NC30-04
Product Line: Peerless Gold

Revision: Rev 1_0
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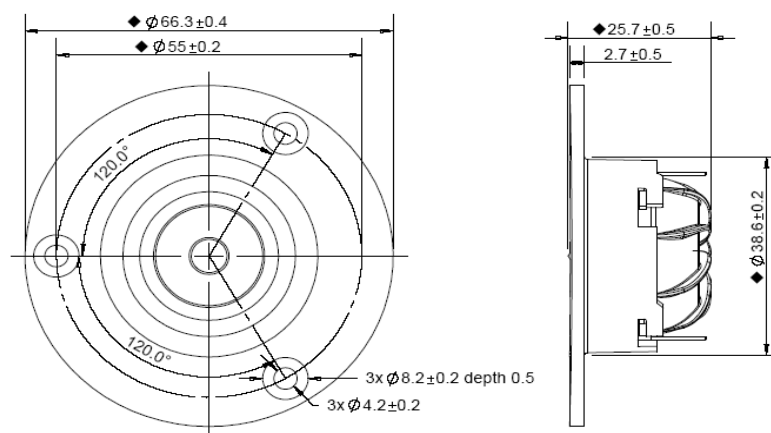


Product Description:

This member of the XT tweeter family utilizes two Tympany technologies to deliver exceptional sound quality: the ring radiator patent, and the central waveguide patent. This model features a 0.75 inch 4 Ω voice coil, mounted in a NdFeB 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:

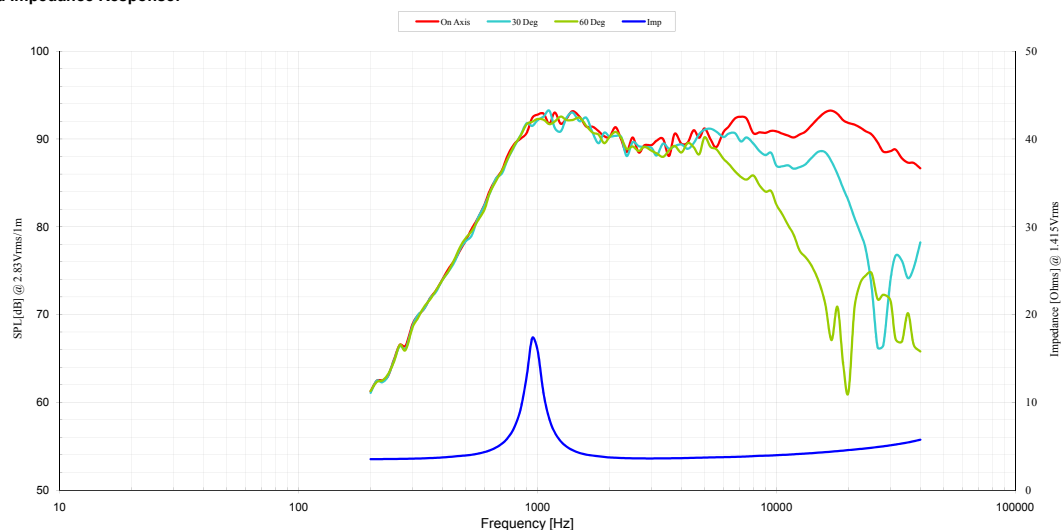


Specifications:

DC Resistance	R_{evc}	Ω	3.1	5.0%	Energy Bandwidth Product	EBP	$(1/Q_{\text{es}}) \cdot f_s$	677
Minimum Impedance	Z_{min}	Ω	3.6	7.5%	Moving Mass	M_{ms}	g	0.21
Voice Coil Inductance	L_e	mH	0.01		Suspension Compliance	C_{ms}	um/N	130.3
Resonant Frequency	f_s	Hz	973	15.0%	Effective Cone Diameter	D	cm	2.4
Mechanical Q Factor	Q_{ms}	-	7.7		Effective Piston Area	S_D	cm ²	4.5
Electrical Q Factor	Q_{es}	-	1.44		Equivalent Volume	V_{as}	L	0.00
Total Q Factor	Q_{ts}	-	1.21		Motor Force Factor	BL	T·m	1.63
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	802		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	0.87
Half Space Sensitivity @ 2.83V	$\text{dB} @ 2.83V/1m$	dB	89.4	+/-1.0 ¹	Voice Coil Former Material	VC _{fm}	-	ASV
Sensitivity @ 1W/1m	$\text{dB} @ 1W/1m$	dB	85.2	+/-1.0 ¹	Voice Coil Inner Diameter	VC _d	mm	19.30
					Gap Height	Gh	mm	2.00
Rated Noise Power (IEC 2685 18.1)	P	W	80		Maximum Linear Excursion	X_{max}	mm	0.12
Test Spectrum Bandwidth	2.5kHz - 20kHz	12 dB/Oct			Ferrofluid Type	FF	-	N/A
					Transducer Size	-	inch	0.75
					Transducer Mass	-	Kg	0.1

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:



F088-0713A