

Model Number: DX20SC00-04
Product Line: Peerless Gold

Revision: Rev 1_0
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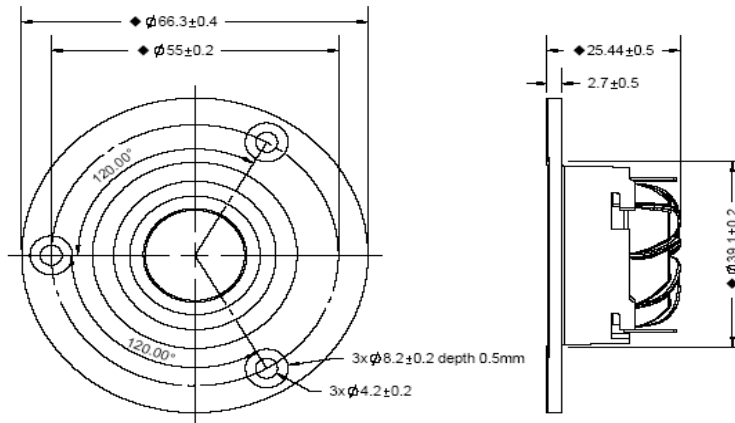


Product Description:

This DX family tweeter features a 4 Ω 0.75 inch voice coil, a damped silk diaphragm with large surround roll to produce a low resonant frequency, and is mounted in a NdFeB motor. The tweeter also features a rear chamber to create extended low frequency response. The faceplate features recessed mounting holes to minimize reflections.



Mechanical 2D Drawing:



Specifications:

DC Resistance	R_{evc}	Ω	3.2	5.0%	Energy Bandwidth Product	EBP	$(1/Q_{es}) \cdot f_s$	602
Minimum Impedance	Z_{min}	Ω	3.8	7.5%	Moving Mass	M_{ms}	g	0.21
Voice Coil Inductance	L_e	mH	0.01		Suspension Compliance	C_{ms}	um/N	112.5
Resonant Frequency	f_s	Hz	1050	15.0%	Effective Cone Diameter	D	cm	2.4
Mechanical Q Factor	Q_{ms}	-	8.5		Effective Piston Area	S_D	cm ²	4.5
Electrical Q Factor	Q_{es}	-	1.74		Equivalent Volume	V_{as}	L	0.00
Total Q Factor	Q_{ts}	-	1.45		Motor Force Factor	BL	T·m	1.58
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	726		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	0.77
Half Space Sensitivity @ 2.83V	$dB @ 2.83V/1m$	dB	90.1	+/-1.0 ¹	Voice Coil Former Material	VC_{fm}	-	ASV
Sensitivity @ 1W/1m	1W/1m	dB	86.1	+/-1.0 ¹	Voice Coil Inner Diameter	VC_d	mm	19.30
Rated Noise Power (IEC 2685 18.1)	P	W	80		Gap Height	Gh	mm	2.00
Test Spectrum Bandwidth	2kHz - 20kHz	12 dB/Oct			Maximum Linear Excursion	X_{max}	mm	0.12
					Ferrofluid Type	FF	-	N/A
					Transducer Size	-	inch	0.75
					Transducer Mass	-	Kg	0.1

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:

