

Model Number: DX20BF00-04
Product Line: Peerless Gold

Revision: Rev 3_0
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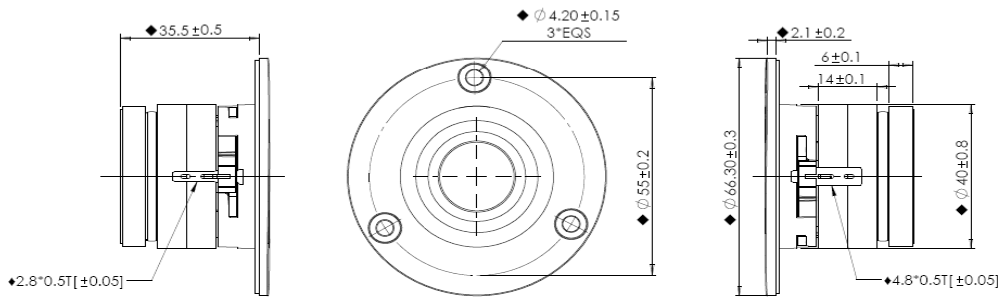


Product Description:

This DX family tweeter features a 4 Ω 19 mm voice coil, a damped silk diaphragm with large surround roll to produce a low resonant frequency, and a ferrite magnet motor which adds heat sinking for power handling capacity. The faceplate features recessed mounting holes to minimize reflections.



Mechanical 2D Drawing:



Specifications:

DC Resistance	R_{evc}	Ω	2.9	±7.5%	Energy Bandwidth Product	EBP	$(1/Q_{es}) \cdot f_s$	225
Minimum Impedance	Z_{min}	Ω	3.3	±7.5%	Moving Mass	M_{ms}	g	0.16
Voice Coil Inductance	L_e	mH	0.01		Suspension Compliance	C_{ms}	um/N	238.0
Resonant Frequency	f_s	Hz	809	±20%	Effective Cone Diameter	D	cm	2.5
Mechanical Q Factor	Q_{ms}	-	3.7		Effective Piston Area	S_D	cm ²	4.9
Electrical Q Factor	Q_{es}	-	3.60		Equivalent Volume	V_{as}	L	0.008
Total Q Factor	Q_{ts}	-	1.83		Motor Force Factor	BL	T-m	0.81
Ratio f_s / Q_{es}	F	f_s / Q_{es}	442		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	0.23
Half Space Sensitivity @ 2.83V	$dB @ 2.83V/1m$	dB	90.1	±1.0 ¹	Voice Coil Former Material	VC_m	-	ASV
Sensitivity @ 1W/1m	$1W/1m$	dB	85.6	±1.0 ¹	Voice Coil Inner Diameter	VC_d	mm	19.30
Rated Noise Power (IEC 2685 18.1)	P	W	60		Gap Height	Gh	mm	2.00
Test Spectrum Bandwidth	2.5KHz-20KHz	12 dB/Oct			Maximum Linear Excursion	X_{max}	mm	0.19
					Ferrofluid Type	FF	-	APG027N
					Transducer Size	-	-	19 mm
					Transducer Mass	-	Kg	0.172

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:

