

Model Number: DX20BF00-08
Product Line: Peerless Gold

Revision: Rev 3_0
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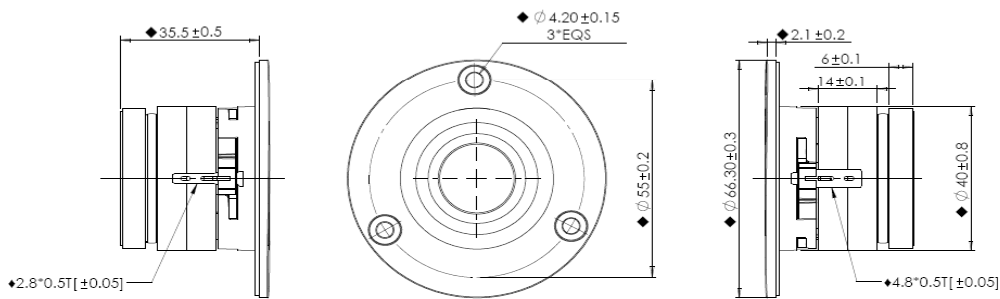


Product Description:

This DX family tweeter features a 8 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	7.5	±7.5%	Energy Bandwidth Product	EBP	$(1/Q_{es}) \cdot f_s$	191
Minimum Impedance	Z_{min}	Ω	8.3	±7.5%	Moving Mass	M_{ms}	g	0.12
Voice Coil Inductance	L_e	mH	0.02		Suspension Compliance	C_{ms}	um/N	310.0
Resonant Frequency	f_s	Hz	810	±20%	Effective Cone Diameter	D	cm	2.5
Mechanical Q Factor	Q_{ms}	-	2.9		Effective Piston Area	S_D	cm ²	4.9
Electrical Q Factor	Q_{es}	-	4.23		Equivalent Volume	V_{as}	L	0.011
Total Q Factor	Q_{ts}	-	1.71		Motor Force Factor	BL	T-m	1.06
Ratio f_s / Q_{es}	F	f_s / Q_{es}	474		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	0.15
Half Space Sensitivity @ 2.83V	$dB @ 2.83V/1m$	dB	86.1	±1.0 ¹	Voice Coil Former Material	VC_m	-	ASV
Sensitivity @ 1W/1m	$1W/1m$	dB	85.8	±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	60		Maximum Linear Excursion	X_{max}	mm	0.10
Test Spectrum Bandwidth	2.5KHz-20KHz	12 dB/Oct			Ferrofluid Type	FF	-	APG027N
					Transducer Size	-	-	19 mm
					Transducer Mass	-	Kg	0.169

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:

