

Model Number: DX25TG59-04
Product Line: Peerless Gold

Revision: Rev 2
Date: 13-Mar-14

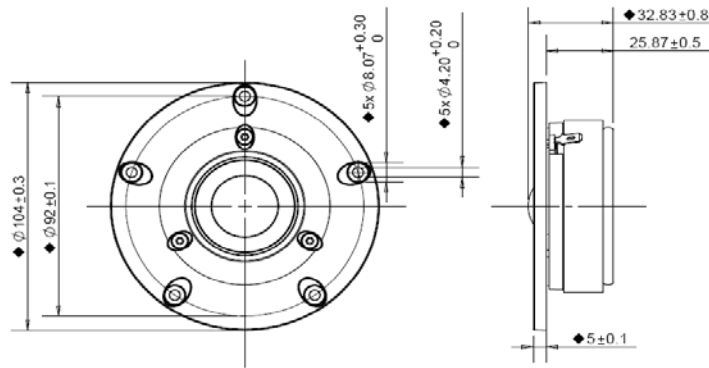


Product Description:

This DX family tweeter features a 4 Ω 25 mm ferrofluid-cooled 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_{DC}	Ω	3.1	±7.5%	Energy Bandwidth Product	EBP	$(1/Q_{es}) \cdot f_s$	1047	
Minimum Impedance	Z_{min}	Ω	3.9	±7.5%	Moving Mass	M_{ms}	g	0.36	
Voice Coil Inductance	L_w	mH	0.02		Suspension Compliance	C_{ms}	um/N	180.1	
Resonant Frequency	f_s	Hz	622	±20%	Effective Cone Diameter	D	cm	3.2	
Mechanical Q Factor	Q_{ms}	-	2.1		Effective Piston Area	S_D	cm ²	8.2	
Electrical Q Factor	Q_{es}	-	0.59		Equivalent Volume	V_{as}	L	0.019	
Total Q Factor	Q_{ts}	-	0.46		Motor Force Factor	BL	T-m	2.72	
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	1351		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	2.40	
Half Space Sensitivity @ 2.83V	dB@2.83V/1m		dB	94.2	±1.0 ¹	Voice Coil Former Material	VC _m	-	ASV
Sensitivity @ 1W/1m	1W/1m		dB	90.1	±1.0 ¹	Voice Coil Inner Diameter	VC _d	mm	25.76
Rated Noise Power (IEC 2685 18.1)	P	W	100		Gap Height	Gh	mm	2.00	
Test Spectrum Bandwidth	2.5KHz-20KHz		12 dB/Oct		Maximum Linear Excursion	X_{max}	mm	0.10	
					Ferrofluid Type	FF	-	APGS11N	
					Transducer Size	-	-	25 mm	
					Transducer Mass	-	Kg	0.50	

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:

