

Model Number: NE25VTS-04 Revision: Rev 2_0
Product Line: Peerless Platinum Date: 25-Aug-10

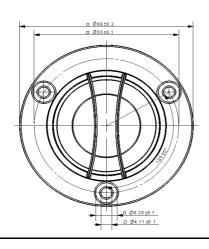


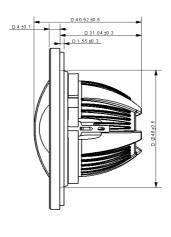
Product Description:

The NE family has leading-edge transducer technology packaged in a cutting edge, stylistic design. The 4 ohm 25 mm tweeters in this family feature finite element analysis designed Neodymium-Iron-Boron magnet (NdFeB) motors, with copper caps for extended frequency response and reduced distortion. The aluminium rear chambers offer extended low frequency performance, while doubling as heat sinking. The butterfly supporting the tweeter diaphragm is made of a high temperature plastic, consistent with the product's high temperature performance rating, and features supporting terminals. The dome material in this design is silk, and the design has been optimized for sound quality and clarity. Rounding out the design is an aluminium face plate and plastic grille, which offers protection for the tweeter diaphragm.



Mechanical 2D Drawing:





Specifications:

DC Resistance	R _{evc}	Ω	3.2	5.0%	Energy Bandwidth Product	EBP	(1/Q _{es})·f _s	657
Minimum Impedance	Z_{min}	Ω	3.68	7.5%	Moving Mass	M_{ms}	g	0.36
Voice Coil Inductance	L _e	mH	0.01		Suspension Compliance	C_{ms}	um/N	130.0
Resonant Frequency	fs	Hz	733	15.0%	Effective Cone Diameter	D	cm	3.2
Mechanical Q Factor	Q_{ms}	-	4.4		Effective Piston Area	S_D	cm ²	8.0
Electrical Q Factor	Q_{es}	-	1.12		Equivalent Volume	V _{as}	L	0.01
Total Q Factor	Q_{ts}	-	0.89		Motor Force Factor	BL	T·m	2.17
Ratio f _s / Q _{ts}	F	f_s / Q_{ts}	823		Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	1.50
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	91.1	+/-1.0 ¹	Voice Coil Former Material	VC_{fm}	-	Al
Sensitivity @ 1W/1m	1W/1m	dB	88.0	+/-1.0 ¹	Voice Coil Inner Diameter	VC_d	mm	25.8
					Gap Height	Gh	mm	2.0
Rated Noise Power (IEC 2685 18.1)	P	W	80		Maximum Linear Excursion	X_{max}	mm	0.10
Test Spectrum Bandwidth	2kHz - 20kHz		12 dB/Oct		Ferrofluid Type	FF		N/A
·					Transducer Size	-	inch	1
ston Band Sensitivity Tolerance					Transducer Mass	-	kg	0.1

Frequency and Impedance Response:

