

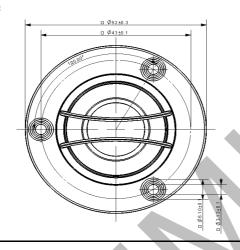
Model Number: NE19VTS-04 Revision: rev 1_1
Description: Vifa RM 19mm tweeter silk dome Date: 31-Aug-09

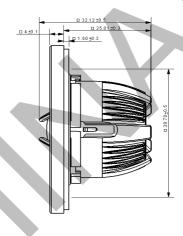


The Vifa NE product line has leading-edge transducer technology packaged in a cutting edge, stylistic design. The tweeters in this product line finite element analysis designed Neodymium-Iron-Boron magnet (NdFeB) motors, with copper caps for extended frequency response and reduced distortion. The aluminium 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	Revc	Ω	2.8
Minimum Impedance	Z_{min}	Ω	3.2
Voice Coil Inductance	L _e	mH	0.01
Resonant Frequency	fs	Hz	816
Mechanical Q Factor	Q _{ms}	-	4.6
Electrical Q Factor	Q _{es}	-	1.48
Total Q Factor	Q _{ts}		1.12
Ratio f _s / Q _{ts}	F	f _s / Q _{ts}	730
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(1/Q_{es})·f_s Energy Bandwidth Product EBP 553 Moving Mass M_{ms} 0.21 g C_{ms} sion Compliance um/N 184.6 Effective Cone Diameter cm 2.5 Effective Piston Area cm² SD 4.9 Equivalent Volume 0.01 Motor Force Factor BI T·m 1 42 Motor Efficiency Factor $(T \cdot m^2)/\Omega$ 0.72 Voice Coil Former Material ASV VC_d Voice Coil Inner Diameter mm 19.3 Maximum Linear Excursion 0.10 mm Transducer Mass kg 0.06

Frequency and Impedance Response:

