Revision: rev 1 1



Model Number: NE19VTC-04

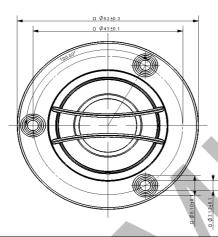
Description: Vifa RM 19mm tweeter "Deep-Anodized Aluminum"

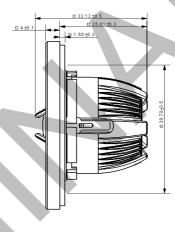


The Vifa NE product line has leading-edge transducer technology packaged in a cutting edge, stylistic design. The tweeters in this product line finite element analysis designed Neodymium-Iron-Boron magnet (NdFeB) motors, with copper caps for extended frequency response and reduced distortion. The aluminium 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 deep-anodized aluminum, 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	3.1	
Voice Coil Inductance	L <sub>e</sub>	mH	0.01	
Resonant Frequency	fs	Hz	837	
Mechanical Q Factor	Q <sub>ms</sub>		3.9	
Electrical Q Factor	Q <sub>es</sub>	-	1.49	
Total Q Factor	Q <sub>ts</sub>	-	1.08	
Ratio f <sub>s</sub> / Q <sub>ts</sub>	F	f <sub>s</sub> / Q <sub>ts</sub>	778	
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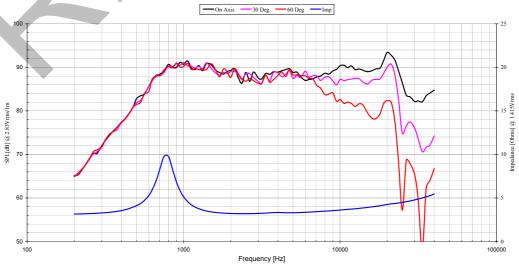
(1/Q<sub>es</sub>)·f<sub>s</sub> **Energy Bandwidth Product** EBP 564 Moving Mass  $\mathsf{M}_{\mathsf{ms}}$ 0.21 g C<sub>ms</sub> sion Compliance um/N 175.3 Effective Cone Diameter cm 2.5 Effective Piston Area cm<sup>2</sup>  $S_D$ 4.9 Equivalent Volume 0.01 Motor Force Factor BI T·m 1 42 Motor Efficiency Factor 0.73  $(T \cdot m^2)/\Omega$ Voice Coil Former Material ASV Voice Coil Inner Diameter  $VC_d$ mm 19.3 Maximum Linear Excursion mm 0.10

kg

0.06

Transducer Mass

## Frequency and Impedance Response:



F088-0713A