

Description: Vifa NE Woofer 5.25"

**Transducer Specification Sheet** 

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The Vifa NE product line has leading-edge transducer technology packaged in a cutting dege, stylistic design. The woofers in this product line feature an innovative cast aluminium basket design which minimizes acoustic reflections inside the driver, through large basket windows and sculpted basket spokes. The basket also is designed to act as a highly coupled heat sink to the Neodymium-Iron-Boron magnet (NdFeB) motor, so as to improve power handling capacity. An additional heat sink is available to provide extra thermal protection if needed. The cone and dust cap are constructed of natural wood fiber material with proprietary coating formulas & processes, so as to yield high clarity products. The cone designs also utilize pentacone technology for improved frequency response. The voice coil bobbin is titanium, for improved performance. The FEA-designed motor features copper caps to minimize inductance and extend performance to high frequencies. Rounding out the design is a 4-way terminal block connector, for ease of electrical connection.





Minimum Impedance	Z <sub>min</sub>	Ω	4.1		Moving Mass	M <sub>ms</sub>	g	10.48	
Voice Coil Inductance	Le	mH	0.07	S	uspension Compliance	C <sub>ms</sub>	um/N	899.6	
Resonant Frequency	f <sub>s</sub>	Hz	52	E	ffective Cone Diameter	D	cm	10.3	
Mechanical Q Factor	Q <sub>ms</sub>	-	9.6		Effective Piston Area	SD	cm <sup>2</sup>	83.3	
Electrical Q Factor	Q <sub>es</sub>	-	0.35		Equivalent Volume	Vas	L	8.77	
Total Q Factor	Q <sub>ts</sub>	<u> </u>	0.33		Motor Force Factor	BL	T∙m	5.83	
Ratio f <sub>s</sub> / Q <sub>ts</sub>	F	f <sub>s</sub> / Q <sub>ts</sub>	156		Motor Efficiency Factor	β	(T·m²)/Ω	9.86	
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	89.1	Void	e Coil Former Material	VC <sub>fm</sub>	-	TiSV	
Rated Noise Power (IEC 2685 18.1)	Р	W	60	Vo	ice Coil Inner Diameter	VCd	mm	38.4	
Test Spectrum Bandwidth	50 Hz - 500	0Hz	12 dB/Oc	Max	timum Linear Excursion	X <sub>max</sub>	mm	5.00	
					Transducer Mass	-	kg	0.696	



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