

Description: Vifa NE Woofer 6.5"

Transducer Specification Sheet

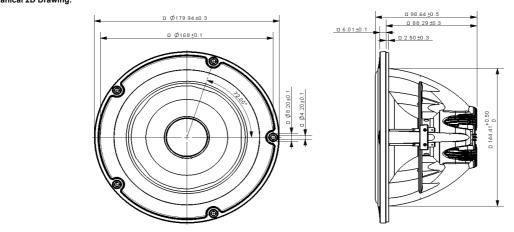
Revision: rev 2_0 Date: 1-Sep-09



The Vifa NE product line has leading-edge transducer technology packaged in a cutting edge, 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.



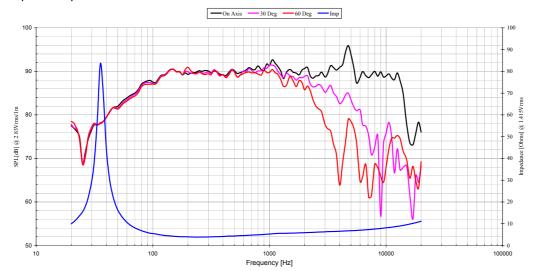




Specifications:

DC Resistanc	e	Revc	Ω	3.3	Energy Bandwidth Product	EBP	(1/Q _{es})·f _s	128
Minimum Impeda	ance	Z _{min}	Ω	3.8	Moving Mass	M _{ms}	g	19.18
Voice Coil Inducta	ance	Le	mH	0.08	Suspension Compliance	C _{ms}	um/N	882.1
Resonant Freque	ency	fs	Hz	39	Effective Cone Diameter	D	cm	13.1
Mechanical Q Fa	actor	Q _{ms}	-	8.6	Effective Piston Area	SD	cm ²	134.8
Electrical Q Fa	actor	Q _{es}	-	0.30	Equivalent Volume	Vas	L	22.51
Total Q Fa	actor	Q _{ts}	-	0.29	Motor Force Factor	BL	T·m	7.07
Ratio f _s	/ Q _{ts}	F	$\rm f_s / Q_{ts}$	133	Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	15.31
Half Space Sensitivity @ 2.	.83V d	B@2.83V/1m	dB	89.8	Voice Coil Former Material	VC _{fm}	-	TiSV
Rated Noise Power (IEC 2685 1	18.1)	Р	W	80	Voice Coil Inner Diameter	VCd	mm	38.4
Test Spectrum Bandwidth		40 Hz - 4000)Hz	12 dB/Oct	Maximum Linear Excursion	X _{max}	mm	5.00
					Transducer Mass	-	kg	0.82

Frequency and Impedance Response:



Tymphany HK Ltd Address : Room 1307-8 Dominion Centre, 43-59 Queen's Rd East, Wanchai, Hong Kong E-mail: sales@tymphany.com