

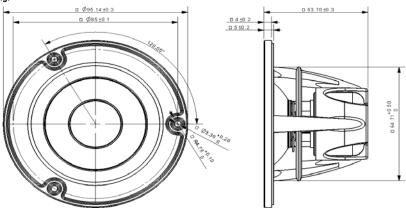
Model Number: NE95W-04 Revision: rev 2_0
Description: Vifa FR 3" Date: 18-Mar-10



The Vifa NE product line has leading-edge transducer technology packaged in a cutting edge, stylistic design. The full-range drivers 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. The cone is aluminium, with a butyl rubber surround designed through finite element analysis for linearity of performance. 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.



Mechanical 2D Drawing:



Specifications:

DC Resistance	R _{evc}	Ω	3.7	Energy Bandwidth Product	EBP	(1/Q _{es})·f _s	132
Minimum Impedance	Z_{min}	Ω	4.0	Moving Mass	M _{ms}	g	2.49
Voice Coil Inductance	Le	mH	0.06	Suspension Compliance	C_{ms}	um/N	961.7
Resonant Frequency	fs	Hz	103	Effective Cone Diameter	D	cm	6.0
Mechanical Q Factor	Q _{ms}	-	9.9	Effective Piston Area	SD	cm ²	28.6
Electrical Q Factor	Q _{es}	-	0.78	Equivalent Volume	V _{as}	L	1.11
Total Q Factor	Q_{ts}	-	0.72	Motor Force Factor	BL	T·m	2.76
Ratio f _s / Q _{ts}	F	f_s / Q_{ts}	143	Motor Efficiency Factor	β	$(T \cdot m^2)/\Omega$	2.07
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	86.1	Voice Coil Former Material	VC_{fm}	-	TiSV
d Noise Power (IEC 2685 18.1)	P	W	20	Voice Coil Inner Diameter	VC _d	mm	25.7
Test Spectrum Bandwidth	100Hz - 20000Hz		12 dB/Oct	Maximum Linear Excursion	X_{max}	mm	1.75
				Transducer Mass	-	kg	0.238

Frequency and Impedance Response:

