<u>TYÂPHANY</u>

Transducer Specification Sheet

Revision: Rev 2_0 Date: 30-Jul-10

Model Number: NE180W-08-HS Product Line: Peerless Platinum

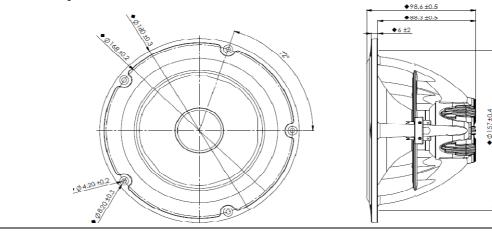
Peerless

Product Description:

This 6.5 inch 8 ohm member of the NE family has leading-edge transducer technology packaged in a cutting edge, stylistic design. The woofers in this family 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 has been added to further improve power handling. 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 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.



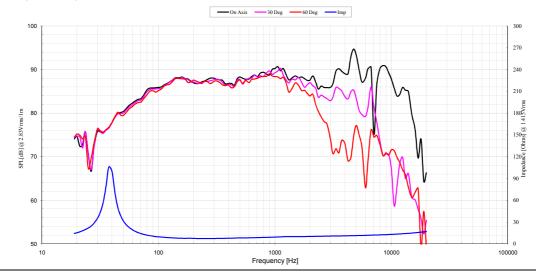




Specifications:

DC Resistance	Revc	Ω	6.2	5.0%	Energy Bandwidth Product	EBP	(1/Q _{es})·f _s	103
Minimum Impedance	Zmin	Ω	7.23	7.5%	Moving Mass	M _{ms}	g	16.39
Voice Coil Inductance	Le	mH	0.12		Suspension Compliance	C _{ms}	um/N	863.9
Resonant Frequency	fs	Hz	42	15.0%	Effective Cone Diameter	D	cm	13.2
Mechanical Q Factor	Q _{ms}	-	7.4		Effective Piston Area	SD	cm ²	136.9
Electrical Q Factor	Q _{es}	-	0.41		Equivalent Volume	Vas	L	22.72
Total Q Factor	Q _{ts}	-	0.39		Motor Force Factor	BL	T∙m	8.17
Ratio f _s / Q _{ts}	F	f_s / Q_{ts}	109		Motor Efficiency Factor	β	(T·m²)/Ω	10.70
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	87.2	+/-1.0 ¹	Voice Coil Former Material	VC _{fm}	-	Tisv
Sensitivity @ 1W/1m	1W/1m	dB	89.2	+/-1.0 ¹	Voice Coil Inner Diameter	VCd	mm	38.4
					Gap Height	Gh	mm	6.0
Rated Noise Power (IEC 2685 18.1)	Р	W	115		Maximum Linear Excursion	X _{max}	mm	5.00
Test Spectrum Bandwidth	40hz - 4khz		12 0	lB/Oct	Ferrofluid Type	FF		N/A
·					Transducer Size	-	inch	6.5
1 - Piston Band Sensitivity Tolerance					Transducer Mass	-	kg	0.84

Frequency and Impedance Response:



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