TYMPHANY

Driver Specification Sheet

Model No:: NE315W-08-HS
Product Line: Tymphany

Rev: 1
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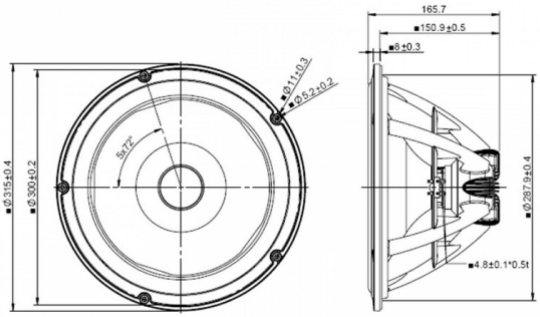
Product Description

This 12 inch 8 ohm member of the NE family has leading-edge transducer technology packaged in a cutting edge, stylistic design. The subwoofers 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 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 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.

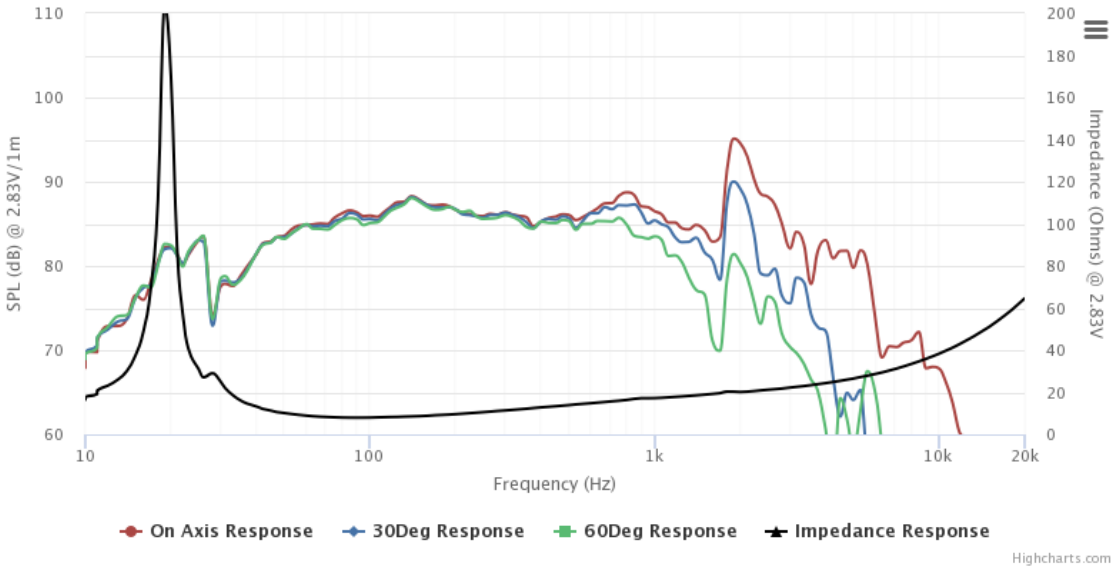
Mechanical Drawing



Specifications

DC Resistance	Revc	Ohms	6.34	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	
Minimum Impedance	Zmin	Ohms	7.93	7.5%	Moving Mass	Mms	g	140.1
Voice Coil Inductance	Le	mH	0.54		Suspension Compliance	Cms	um/N	447.8
Resonant Frequency	Fs	Hz	20.09	15%	Effective Cone diameter	D	cm	25.4
Mechanical Q Factor	Qms		11.72		Effective Piston Area	Sd	cm^2	506.7
Electrical Q Factor	Qes	0.36			Effective Volume	Vas	L	161.47
Total Q Factor	Qts		0.35		Motor Force Factor	BL	Tm	17.68
Ratio Fs/Qts	F	Fs/Qts	57.74		Motor Efficiency Factor	ß	(T*M^2)/Ohms	49.3
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	86.22	+/- 1.0db	Voice coil former Material	VCfm		TiSV
Half Space Sensitivity @1W/1M	db@1W/1M	dB	86.2	+/- 1.0db	Voice coil inner diameter	VCd	mm	51.32
Gap Height	Gh	mm	8		Rated Noise Power	P	W	220
Maximum Linear Excursion	Xmax	mm	9.4		Test Spectrum Bandwidth	20Hz - 1kHz		
Ferrofluid Type	FF		N/A		Driver Size	Inch	12 in	
Driver Mass	Kg	2.83						

Frequency and Impedance Response



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