

Model No: NCP-1230R01-08  
 Product Line:

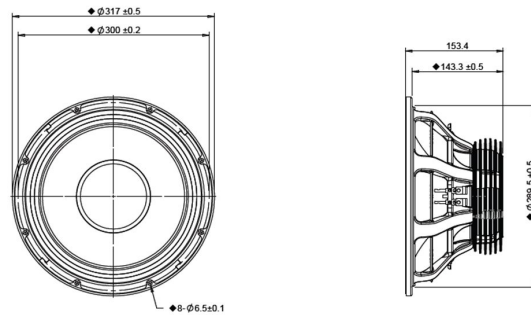
Rev 1  
 Last Update: 2018-04-10 16:11:59

## Product Description

This 12 inch 8 ohm speaker features a FEA optimized Neo magnet motor, a 3in high-temperature aluminum wire voice coil, and a high strength cast aluminum frame, specially designed motor cooling system incorporate with the cast aluminum heatsink can dramatically increase the power handling and reduce the power compression, the multi-roll surround and spider have been optimized to reduce distortion over the excursion range of this transducer.



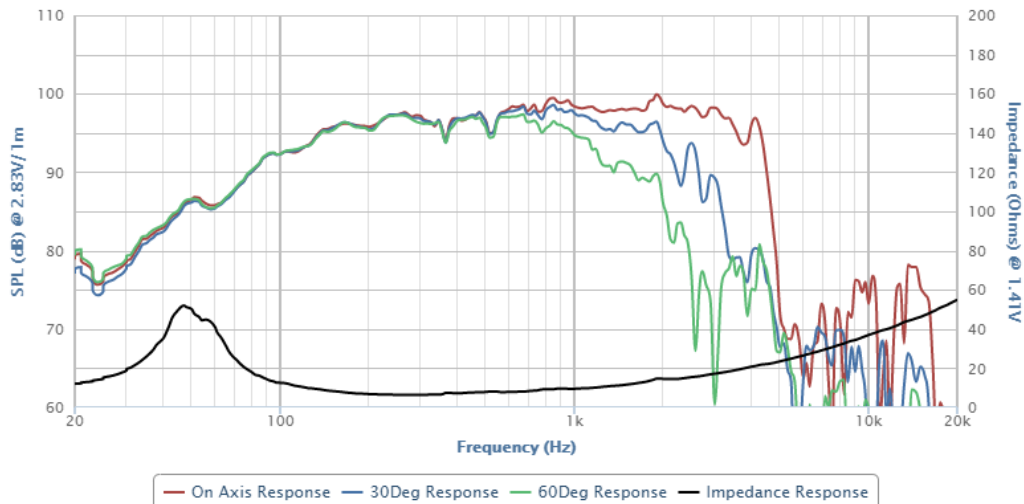
## Mechanical Drawing



## Specifications

DC Resistance	Revc	Ohms	5.3	5.0%	Energy Bandwidth Product	EBP	(1/Qes)*fs	162.5
Minimum Impedance	Zmin	Ohms	6.44	7.5%	Moving Mass	Mms	g	59
Voice Coil Inductance	Le	mH	0.73		Suspension Compliance	Cms	um/N	161
Resonant Frequency	Fs	Hz	52	15%	Effective Cone diameter	D	cm	26.2
Mechanical Q Factor	Qms		4.1		Effective Piston Area	Sd	cm <sup>2</sup>	539.13
Electrical Q Factor	Qes		0.32		Effective Volume	Vas	L	66
Total Q Factor	Qts		0.29		Motor Force Factor	BL	Tm	18.8
Ratio Fs/Qts	F	Fs/Qts	179.31		Motor Efficiency Factor	β	(T*M <sup>2</sup> )/Ohms	66.69
Half Space Sensitivity @2.83V	db@2.83V/1M	dB	97.35	+/- 1.0db	Voice coil former Material	VCfm		TGL
Half Space Sensitivity @1W/1M	db@1W/1M	dB	96.41	+/- 1.0db	Voice coil inner diameter	VCd	mm	75.75
Gap Height	Gh	mm	10		Rated Noise Power	P	W	600
Maximum Linear Excursion	Xmax	mm	7.1		Test Spectrum Bandwidth	60-600Hz		
Ferofluid Type	FF				Transducer Size	Inch	12	
Transducer Mass	Kg	4.4						

## Frequency and Impedance Response



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