

6.5" 6NPM

Midrange



Key features:

- VERY HIGH EFFICIENCY MIDRANGE
- ULTRA LOW HARMONIC DISTORTION
- HIGH POWER HANDLING

Design notes:

The 6NPM is a very high efficiency, (97 dB 1 watt / 1 meter in 1l enclosure) 6-inch midrange speaker with incredibly linear frequency response characteristics and ultra low harmonic distortion artifacts. The 6NPM has extremely high sound quality. The 6NPM uses a lightweight paper pulp, specifically developed for this application. This unique cone provides the ideal weight to strength ratio.

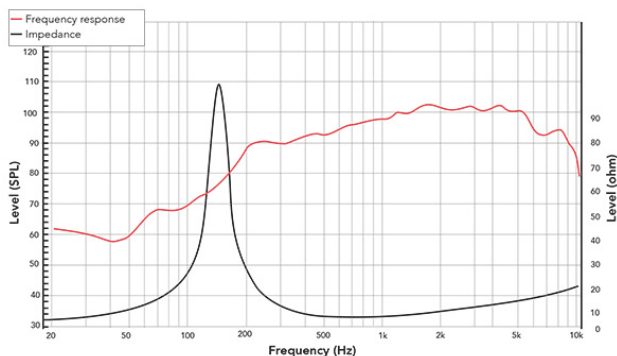
Voice Coil
At the core of the 6NPM is it's voice coil technology featuring edge wound aluminum ribbon wire. Unique lightweight and very short former provides the ideal transfer of power between the voice coil and the cone assembly and assists in reducing the distortion artifacts. By combining this material with the state of the art adhesives, the 6NPM delivers incredible performance.

The neodymium magnet is in a direct contact with the CNC exposed aluminum section of the basket, hold in place by our thermal transfer adhesives. This design dramatically improves the heat transfer. Further more, based upon a request, we have developed added on aluminum heat-sink. The heat-sink is a recommended optional accessory for applications in sealed mid-range, low volume enclosures.

Specifications:

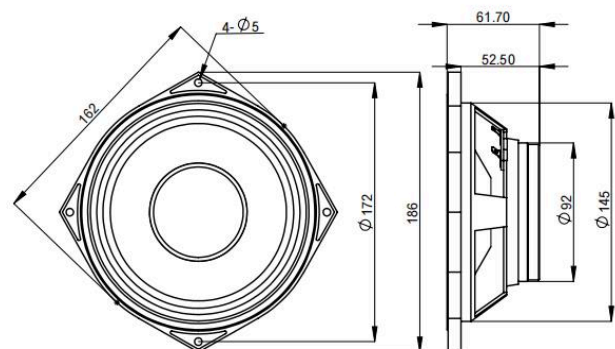
General specs		T/S Parameters		Design details		Ordering codes:	
Nominal Diameter:	6.5 "	Resonant frequency:	150 Hz	Surround Material:	fabric	DR-6.5-006-8R-B2-C0001	
Rated Impedance:	8 ohm	Re:	6.9 ohm	Cone material:	Paper GF	Legacy code: 6NPMX8-164	
Power handling		Qes:	0.38	Spider:	Nomex	Recone kits:	
AES Power:	180 watts	Qms:	4.58	Plate thickness:	6 mm	RC6NPMX8-164	
Program Power:	360 watts	Qts:	0.35	Overall diameter:	162 mm	In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.	
Peak Power:	720 watts	Vas:	2.9 liters	Bolt circle diameter:	172 mm		
Voice Coil		Sd:	143.1 cm²	Baffle cutout dia.:	145 mm		
Diameter:	44.5 mm	Sensitivity:	96.79 dB	Mounting holes:	4		
Former:	Glass Fiber	Mms:	11.1 grams	Depth:	52.5 mm		
Winding height:	6.8 mm	Bl:	13.7	Net weight:	1.2 kg		
		Le:	0.16 mH				

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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