

**6"****6NPM**

# Neodymium Midrange



## Key features:

- VERY HIGH EFFICIENCY MID-RANGE
- ULTRA LOW HARMONIC DISTORTION
- HIGH POWER HANDLING

## Design notes:

The 6NPM is a very high efficiency, (101.8 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

Nominal Diameter: 6"

Rated Impedance: 8 ohm

### Power handling

AES Power: 180 watts

Program Power: 360 watts

Peak Power: 720 watts

### Voice Coil

Diameter: 1.75 in.

Winding wire: Aluminum

Former: Glass Fiber

Winding height: 6.8 mm

### T/S Parameters

Resonant frequency: 150 Hz

Re: 6.9 ohm

Qes: 0.38

Qms: 4.58

Qts: 0.35

Vas: 2.9 liters

Sd: 143.1 cm<sup>2</sup>

Sensitivity: 96.79 dB

Mms: 11.1 grams

Bl: 13.7

Le: 0.16 mH

### Design details

Surround Material: Fabric

Cone material: Paper

Spider: Nomex

Plate thickness: 6 mm

Peak to peak linear cone displacement: 3.6 mm

Overall diameter: 162 mm

Bolt circle diameter: 172 mm

Baffle cutout dia.: 145 mm

Number of mounting holes: 4

Depth (flange to rear): 52.5 mm

Net weight: 1.2kg

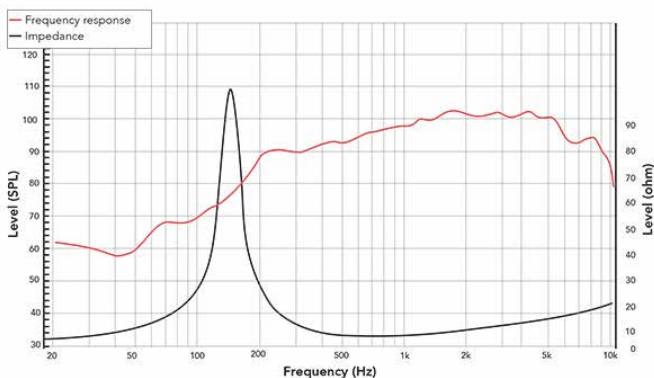
### Ordering codes:

6NPMX8-164

### Recone kits:

In many cases REDCATT produces 4 ohms, 8 ohms and 16 ohms versions. Indicate what impedance do you need in your request.

## Frequency response & Impedance



Frequency response measured on IAC baffle

## 2D drawing

