

15" | 15NPM

Mid-woofer



Key features:

- EXTENDED FREQUENCY RESPONSE
- 2 DEMODULATION RINGS, LIGHTWEIGHT CARBON FIBER LOADED PAPER CONE
- HI BL, DOUBLE AIR-GAP, POWERFUL MOTOR STRUCTURE

Design notes:

The 15NPM is a truly unique full range woofer. We have designed cutting edge product, using the best available materials and highly optimized design for the best performance in its class. It delivers very high efficiency, (98 dB 1watt / 1 meter), incredibly linear frequency response characteristics with extended HF frequency response, high power handling capability, while generating ultra low harmonic distortion artifacts. The 15NPM

uses a lightweight carbon fiber loaded cone assembly along with a high excursion triple roll constant geometry surround. This combination provides remarkable strength, high efficiency and a peak to peak linear excursion of 21mm.

Magnetic Circuit

The magnetic circuit sports two aluminum shorting rings, double air-gap front plate. The cooling system and the air flow has

been designed using modern FEM techniques and further optimized to provide the highest levels of cooling efficiency. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability..

Specifications:

General specs

Nominal Diameter: 15"

Rated Impedance: 8 ohm

Power handling

AES Power: 800 watts

Program Power: 1600 watts

Peak Power: 3200 watts

Voice Coil

Diameter: 4 in.

Winding wire: Aluminum Sq.

Former: Glass Fiber

Winding height: 23 mm

T/S Parameters

Resonant frequency: 48 Hz

Re: 4.7 ohm

Qes: 0.47

Qms: 16.5

Qts: 0.46

Vas: 89.9 liters

Sd: 855.3 cm²

Sensitivity: 98 dB

Mms: 123 grams

BL: 19.3

Le: 0.68 mH

Design details

Surround Material: Fabric

Cone material: Paper

Spider: Nomex

Plate thickness: 13 mm

Peak to peak linear cone displacement: 21.2 mm

Overall diameter: 392 mm

Bolt circle diameter: 373 mm

Baffle cutout dia.: 360 mm

Number of mounting holes: 8

Depth (flange to rear): 149.5 mm

Net weight: 6.65kg

Ordering codes:

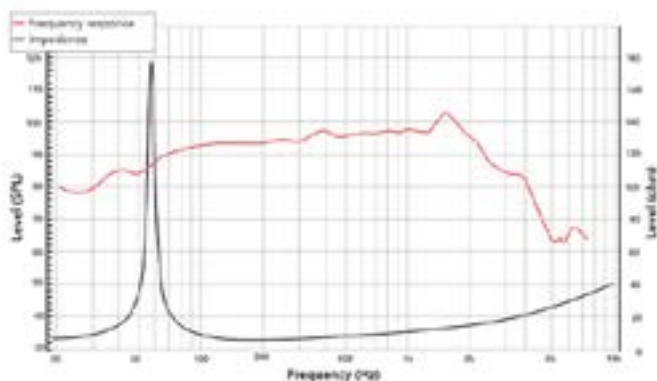
15NPM-X8 ohm-262

Recone kits:

RC15NPMX-262

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

