# 10" 10NPM

## Woofer

REDCATT


## Key features:

- HI SENSITIVITY, HI POWER HANDLING
- CARBON FIBER LOADED PAPER CONE, NOMEX SPIDER
- EXCELLENT FREQUENCY RESPONSE

## Design notes:

The 10NPM is a high efficiency, (95 dB 1watt / 1 meter) 10-inch mid bass woofer with incredibly linear frequency response characteristics, extreme high power handling capability while generating low harmonic distortion artifacts.-
The 10NPM uses a lightweight carbon fiber loaded cone assembly along with a precision double roll constant geometry surround. This combination provides remarkable strength, high efficiency and a excursion linearity of 15.4mm.

Magnetic Circuit
REDCATT engineers have developed a lightweight, inside-neodymium slug based magnetic circuit capable of delivering the highest level of performance providing a consistent, high integrity magnetic flux gap, ultra low distortion characteristic and high efficiency cooling system. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability.

## Specifications:

| General specs | |
|---|---|
| Nominal Diameter: | 10" |
| Rated Impedance: | 8 ohm |

| Power handling | |
|---|---|
| AES Power: | 200 watts |
| Program Power: | 400 watts |
| Peak Power: | 800 watts |

| Voice Coil | |
|---|---|
| Diameter: | 3 in. |
| Winding wire: | CCAW |
| Former: | Glass Fiber |
| Winding height: | 23.2 mm |

| T/S Parameters | |
|---|---|
| Resonant frequency: | 58 Hz |
| Re: | 6.5 ohm |
| Qes: | 0.36 |
| Qms: | 4.68 |
| Qts: | 0.33 |
| Vas: | 29.3 liters |
| Sd: | 363.1 cm2 |
| Sensitivity: | 95 dB |
| Mms: | 47 grams |
| Bl: | 17.9 |
| Le: | 0.79 mH |

| Design details | |
|---|---|
| Surround Material: | Fabric |
| Cone material: | Paper |
| Spider: | Nomex |
| Plate thickness: | 11 mm |
| Peak to peak linear cone displacement | 15.4 mm |
| Overall diameter: | 262 mm |
| Bolt circle diameter: | 246 mm |
| Baffle cutout dia.: | 234 mm |
| Number of mounting holes: | 4 |
| Depth (flange to rear): | 107.8 mm |
| Net weight: | 3.5kg |

**Ordering codes:**

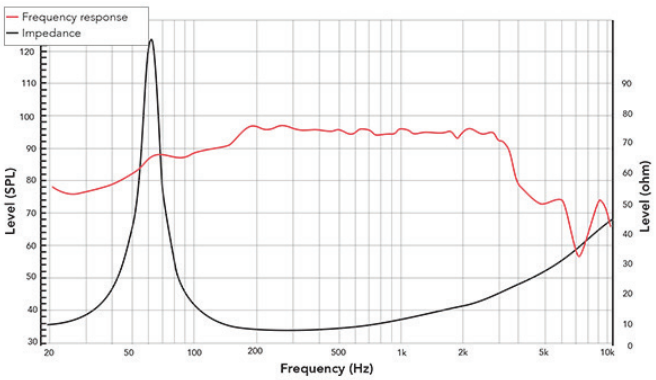
10NPM-X8 ohm-319

Recone kits:

RC10NPMX-319

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