

3"**31NFR****Full-range****REDCATT** **Key features:**

- EXTENDED FREQUENCY RESPONSE
- HARD ANODIZED ALUMINUM CONE
- USAGE IN HI-FI, COLUMNS, OUTDOOR AND PORTABLE PRODUCTS

Design notes:

The 31NFR is a high efficiency, (84dB 1watt / 1 meter) 3-inch full range speaker with very linear frequency response characteristics and high power handling capability. The 31NFR uses a lightweight anodized aluminum cone assembly along with a NBR single roll geometry surround. The combination provides high efficiency, extended high frequency response and sustained output under variety of conditions, while generating low harmonic distortion

over the working range of this speaker.

over the t-pole.

Magnetic circuit design
REDCATT engineers have developed neodymium based magnetic circuit with small form factor, high integrity magnetic flux gap and low distortion characteristic. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability. Copper demodulation cup is assembled

Specifications:**General specs**

Nominal Diameter: 3"

Rated Impedance: 8 ohm

Power handling

AES Power: 30 watts

Program Power: 60 watts

Peak Power: 120 watts

Voice Coil

Diameter: 1 in.

Winding wire: Aluminum

Former: Kapton

Winding height: 7.4 mm

T/S Parameters

Resonant frequency: 115 Hz

Re: 6.3 ohm

Qes: 0.94

Qms: 15.1

Qts: 0.88

Vas: 0.85 liters

Sd: 28.3 cm²

Sensitivity: 84 dB

Mms: 2.5 grams

Bl: 3.5

Le: 0.09 mH

Design details

Surround Material: Rubber

Cone material: Aluminum

Spider: Nomex

Plate thickness: 4 mm

Peak to peak linear cone displacement: 5.8 mm

Overall diameter: 78.7 mm

Bolt circle diameter: 84 mm

Baffle cutout dia.: 71.5 mm

Number of mounting holes: 4

Depth (flange to rear): 45.3 mm

Net weight: 0.18kg

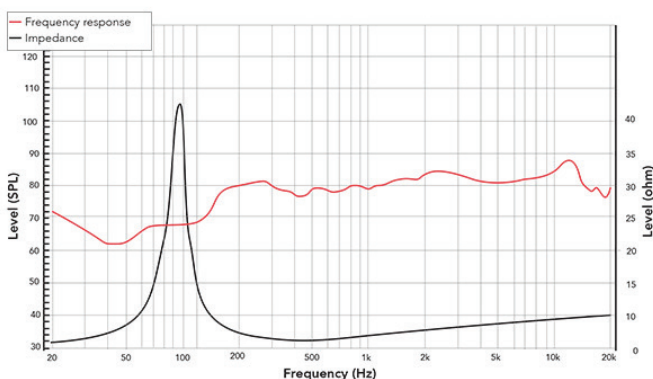
Ordering codes:

31NFR-X8 ohm-229

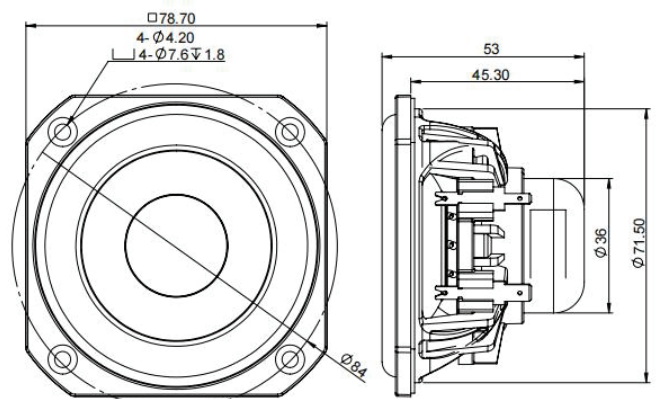
Recone kits:

RC31NFRX-229

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

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