

3" 31NFR

Fullrange



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.

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 over the t-pole.

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:	25.4 mm
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 cm ²
Sensitivity:	84.49 dB
Mms:	2.5 grams
Bl:	3.5
Le:	0.09 mH

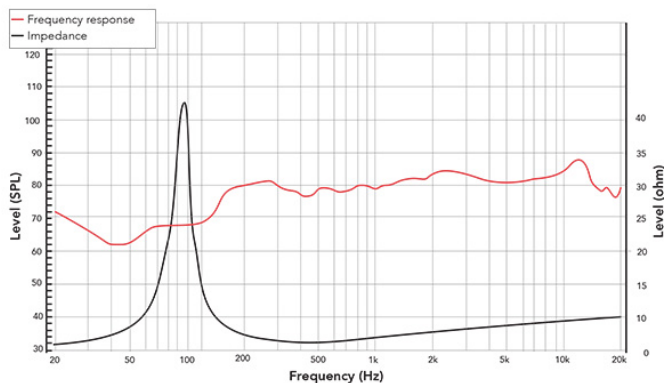
Design details	
Surround Material:	NBR
Cone material:	Aluminum
Spider:	Nomex
Plate thickness:	4 mm
Overall diameter:	78.7 mm
Bolt circle diameter:	84 mm
Baffle cutout dia.:	71.5 mm
Mounting holes:	4
Depth:	45.3 mm
Net weight:	0.18 kg

Ordering code:

DR-3-005-8R-B2-C0001

In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing

