

Neo Full Range

Ordering code: 31NFR-229

| Cont. Power | Sens. | Fs | Freq. Range | VC Dia. | VC Wire | Cone/Surround/Dome | Magnet type |
|-------------|-------|-------|-------------------|-----------|---------|--------------------|-------------|
| 50 watts | 84 dB | 94 Hz | 70 Hz - 20,000 Hz | 1.0" 1out | CCA | Aluminum / Rubber | Neodymium |

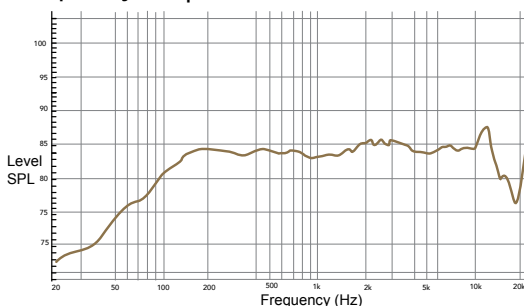
The 31NFR is a high efficiency, (84dB 1watt / 1 meter) 3-inch full range speaker with very linear frequency response characteristics and high power handling capability. The 31NFR uses a lightweight anodized aluminum cone assembly along with a NBR single roll geometry surround. The combination provides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

Magnetic circuit design

REDCATT engineers have developed neodymium based magnetic circuit, capable of delivering the highest level of performance, providing a consistent, high integrity magnetic flux gap, 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.

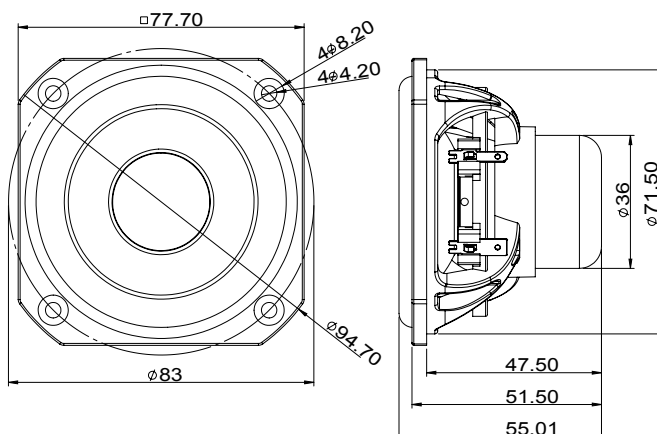
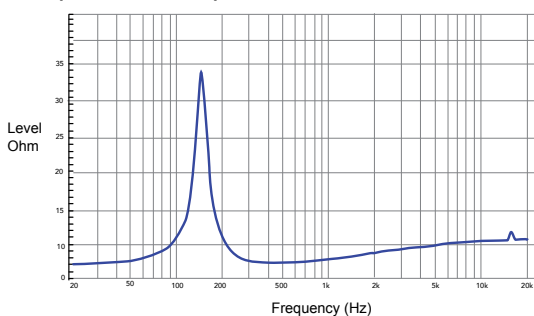


Frequency Response



Frequency response measurement with mounted in sealed 1.5 liter enclosure tuned to 90Hz

Impedance Response



General Specifications

| | |
|-----------------------------------|-------------------------|
| Nominal Diameter: | 76 mm (3 in.) |
| Rated Impedance: | 8 ohm |
| Power Handling: | |
| AES Power: | 25 Watts |
| Power Compression @-10dB | 0.7dB |
| Power Compression @-10dB | 0.95dB |
| Power Compression @Max Power | 1.7dB |
| Maximum Recommended Xover Freq.: | --- N/A --- |
| Recommended Enclosure Volume: | 0.6 - 2.5 Liters |
| Cone Design: | Str. Gmtry, aluminum |
| Front Plate Thickness: | 4 mm |
| Winding Height: | 8.7 mm |
| Fs | 94 Hz |
| Re | 6.41 Ohm |
| Sd | 28.3 cm ² |
| Qms | 5.4 |
| Qes | 0.85 |
| Qts | 0.74 |
| Vas | 1.1 Liters |
| Mms | 2.9 g |
| BL product (force factor) | 3.6 Tm |
| Peak to peak displacement (mm) | 5 mm |
| Le (mH @1kHz) | 0.17 |
| Overall diameter | sq. 77.7 mm |
| No. of mounting holes | 4 |
| Bolt circle diameter | 83 mm |
| Front mount baffle cutout dia. | 71.5 mm Nominal |
| Rear mount baffle cutout diameter | 70 mm Nominal |
| Total depth | 55 mm |
| Flange and gasket thickness | --- N/A --- |
| Net weight | 0.21 kg |
| Shipping weight | --Industrially packed-- |
| Packing Dimensions | --Industrially packed-- |