

# 4" 40NFR

## Fullrange



### Key features:

- FULL-RANGE FREQUENCY RESPONSE
- UNIQUE CONE MATERIAL
- FOR COLUMN SYSTEMS, DESKTOP HIGH PERFORMANCE 2 WAY OR ONE-WAY SPEAKERS, HI-FI APPLICATIONS

### Design notes:

The 40NFR is a very high efficiency, (86dB 1watt / 1 meter) 4-inch full range speaker with linear frequency response characteristics and high power handling capability while generating low harmonic distortion artifacts. The 40NFR uses a unique exponential cone, made off very lightweight glass-carbon fiber woven fabric, along with a NBR single roll geometry surround.

The combination provides remarkable strength, high efficiency and sustained output under extreme conditions.

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. The compact size of the magnetic circuit ensures the speaker can fit in tight space of modern audio product designs.

### Specifications:

| General specs     |           |
|-------------------|-----------|
| Nominal Diameter: | 4 "       |
| Rated Impedance:  | 16 ohm    |
| Power handling    |           |
| AES Power:        | 25 watts  |
| Program Power:    | 50 watts  |
| Peak Power:       | 100 watts |
| Voice Coil        |           |
| Diameter:         | 19 mm     |
| Winding wire:     | CCA W     |
| Former:           | Kapton    |
| Winding height:   | 4.9 mm    |

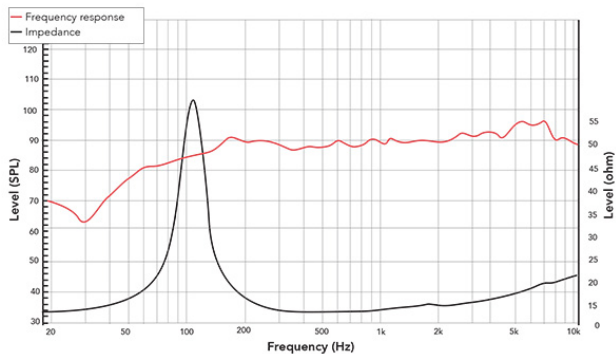
| T/S Parameters      |                      |
|---------------------|----------------------|
| Resonant frequency: | 115 Hz               |
| Re:                 | 12.3 ohm             |
| Qes:                | 1.3                  |
| Qms:                | 6.2                  |
| Qts:                | 1.1                  |
| Vas:                | 1.5 liters           |
| Sd:                 | 50.2 cm <sup>2</sup> |
| Sensitivity:        | 85.52 dB             |
| Mms:                | 4.4 grams            |
| Bl:                 | 5.3                  |
| Le:                 | 0.2 mH               |

| Design details        |          |
|-----------------------|----------|
| Surround Material:    | NBR      |
| Cone material:        | Paper CF |
| Spider:               | Nomex    |
| Plate thickness:      | 4 mm     |
| Overall diameter:     | 103.5 mm |
| Bolt circle diameter: | 115 mm   |
| Baffle cutout dia.:   | 91 mm    |
| Mounting holes:       | 4        |
| Depth:                | 50.5 mm  |
| Net weight:           | 0.2 kg   |

| Ordering codes:       |  |
|-----------------------|--|
| DR-4-008-16R-B2-C0001 |  |
| Legacy code: 223      |  |
| Recone kits:          |  |
| RC223                 |  |

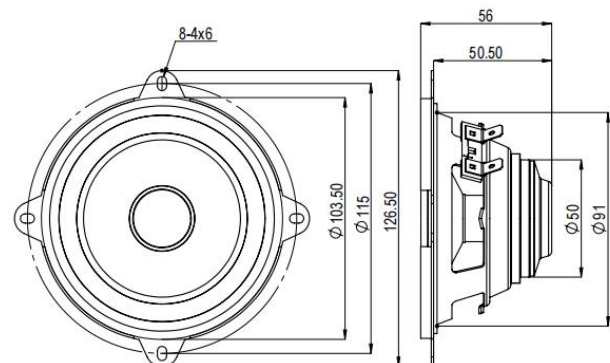
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

### Frequency response & Impedance



Frequency response measured on IEC baffle

### 2D drawing



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