



Key features:

- EXTENDED FREQUENCY RESPONSE
- FEM OPTIMIZED MAGNETIC STRUCTURE
- USE IN LARGER SPEAKER SYSTEMS

Design notes:

The 180FCD compression driver is a very high performance high frequency device ideal for professional loudspeaker systems. The driver's dome is carefully attached to a based magnetic circuit provides a robust, high force BL field, providing precision control of the Polyimide diaphragm assembly.

Diaphragm Assembly
The driver features a 44mm Polyimide

diaphragm formed as single piece with Polyimide suspension.

The dome is assembled to a high temperature Nomex voice coil former that withstands the long term power characteristics typically seen in professional applications. The acoustic output exits through a bullet phase plug and a 1.0 inch throat aperture. Nominal sensitivity is 108.5 dB 1watt / 1 meter.

REDCATT uses state of the art adhesives in all assembly steps. Our voice coil to dome bonding is unique process, developed to greatly improve the power handling capabilities. REDCATT unique and precise adhesives dispensing, combined with our in-house developed dome treatments are further improving the long term reliability of this product.

Specifications:

| General specs | |
|-------------------|-----------|
| Nominal Diameter: | 2" |
| Rated Impedance: | 8 ohm |
| Power handling | |
| AES Power: | 40 watts |
| Program Power: | 80 watts |
| Peak Power: | 160 watts |
| Voice Coil | |
| Diameter: | 1.8 in. |
| Winding wire: | CCAR |
| Former: | kapton |

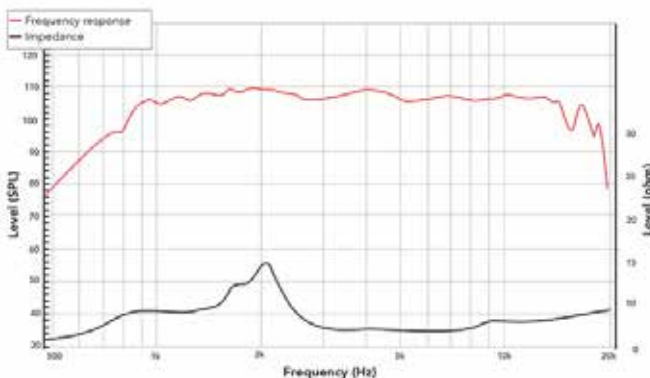
| T/S Parameters | |
|---------------------|---------|
| Resonant frequency: | 2000 Hz |
| Nominal sensitivity | 109 dB |
| Re: | 6 ohm |
| Le: | n/a mH |

| Design details | |
|---------------------------|-----------|
| Dome Material: | Polymer |
| Surround material: | Polymer |
| Magnet material: | Ferrite |
| Overall diameter: | 120 mm |
| Bolt circle diameter: | 76&57 mm |
| Throat diameter: | 28.5mm mm |
| Number of mounting holes: | 2+3 |
| Depth (front to rear): | 69 mm |
| Net weight: | 2.2kg |

| Ordering codes: | |
|-----------------|---------------|
| | 180FCDX-044 |
| | |
| | |
| | |
| Recone kits: | RC180FCDX-044 |

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

