

# 6" CX6F140F

## Coaxial



Photo 2

### Key features:

- LF AND HF COMBINED MAGNETIC CIRCUIT
- COMPACT, BUT POWERFUL SPEAKER
- MAGNETIC CIRCUIT COMBINING FERRITE AND NEODYMIUM MAGNETS

### Design notes:

The CX6F-140F is a high efficiency, (93dB 1watt / 1 meter) 6.5-inch coaxial speaker with very linear frequency response characteristics and high power handling capability. The mid-woofer utilizes REDCATT developed paper pulp cone that has proven its performance in many of our successful designs. The HF section was designed around our most successful dome assembly as used in 140FCD. The mini

waveguide is CNC machined from single piece of aluminum, given the whole assembly incredible precision. The combination of used materials with our state of the art quality production yields in well performing driver even in the most demanding extreme conditions.

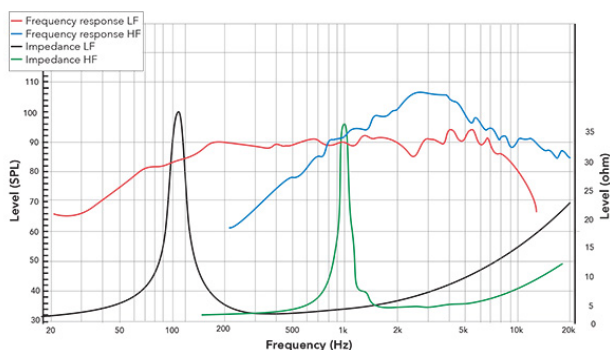
Magnetic circuit design  
REDCATT engineers have developed ferrite-

neodymium based magnetic circuit, capable of delivering the highest level of performance in a small form factor. The combination of ferrite and neodymium delivers an excellent magnetic performance. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability. Aluminum demodulation ring is assembled in the HF section.

### Specifications:

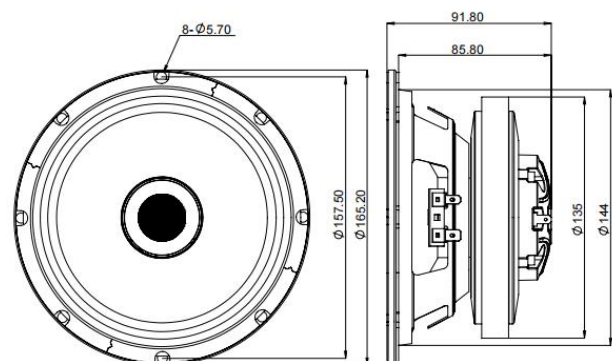
| General specs                      | T/S Parameters                         | Design details                        | Ordering codes:                                                                                             |
|------------------------------------|----------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Nominal Diameter: <b>6 "</b>       | Resonant frequency: <b>121/1000 Hz</b> | Surround Material: <b>fabric/PEN</b>  | <b>DR-6-010-8R-B2-C0001</b>                                                                                 |
| Rated Impedance: <b>8 ohm</b>      | Re: <b>5.4/5.5 ohm</b>                 | Cone material: <b>Paper CF/PEN</b>    | Legacy code: <b>CX6F140FX8X8-361C</b>                                                                       |
| Power handling                     | Qes: <b>0.52</b>                       | Spider: <b>Nomex</b>                  | Recone kits:                                                                                                |
| AES Power: <b>100/30 watts</b>     | Qms: <b>4.73</b>                       | Plate thickness: <b>6 mm</b>          | <b>RCCX6F140FX8X8-361C</b>                                                                                  |
| Program Power: <b>200/60 watts</b> | Qts: <b>0.47</b>                       | Overall diameter: <b>165.2 mm</b>     | In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request. |
| Peak Power: <b>400/120 watts</b>   | Vas: <b>4.4 liters</b>                 | Bolt circle diameter: <b>157.5 mm</b> |                                                                                                             |
| Voice Coil                         | Sd: <b>141 cm²</b>                     | Baffle cutout dia.: <b>144 mm</b>     |                                                                                                             |
| Diameter: <b>44.5/35.6 mm</b>      | Sensitivity: <b>95.5 dB</b>            | Mounting holes: <b>8</b>              |                                                                                                             |
| Winding wire: <b>CCAR</b>          | Mms: <b>10.9 grams</b>                 | Depth: <b>85.8 mm</b>                 |                                                                                                             |
| Former: <b>Glass Fiber/kapton</b>  | Bl: <b>9.27</b>                        | Net weight: <b>2.1 kg</b>             |                                                                                                             |
| Winding height: <b>10/2.5 mm</b>   | Le: <b>0.45 mH</b>                     |                                       |                                                                                                             |

### Frequency response & Impedance



Frequency response measured on IEC baffle

### 2D drawing



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