



RFS CDS\*-43 series Directional Coupler have been designed for a variety of wireless applications in the frequency band from 694 to 3800MHz. The unit couples off a defined fraction of a RF signal from 5 to 30 dB with minimal reflections or loss. The broad frequency range is ideally suited for multi-band distributed antenna systems or in combination with RADIAFLEX® radiating cables.

**FEATURES / BENEFITS**

- 4.3-10-female interfaces
- PIM optimized design (160dBc @2x43dBm)
- Low insertion loss
- High power handling
- Small size, Low weight



**Technical features**

**STRUCTURE**

|                        |  |                     |
|------------------------|--|---------------------|
| Product Type           |  | Directional Coupler |
| Techn. Application     |  | Indoor              |
| Number of Input Ports  |  | 1                   |
| Number of Output Ports |  | 2                   |

**ELECTRICAL SPECIFICATIONS**

|                         |         |                   |
|-------------------------|---------|-------------------|
| Impedance               | Ohm     | 50                |
| Total Input Power       | W       | 400               |
| Frequency Range         | MHz     | 694 - 3800        |
| Connector Type          |         | 4.3-10 female     |
| Max. VSWR / Return Loss | VSWR/dB | 1.30/17.7 (1.3)   |
| Insertion Loss max.     | dB      | 0.2               |
| Coupling Value          | dB      | 30                |
| Coupling Flatness max.  | dB      | ±1.0              |
| Intermodulation (IM3)   |         | -160dBc (2x43dBm) |

**TEMPERATURE SPECIFICATIONS**

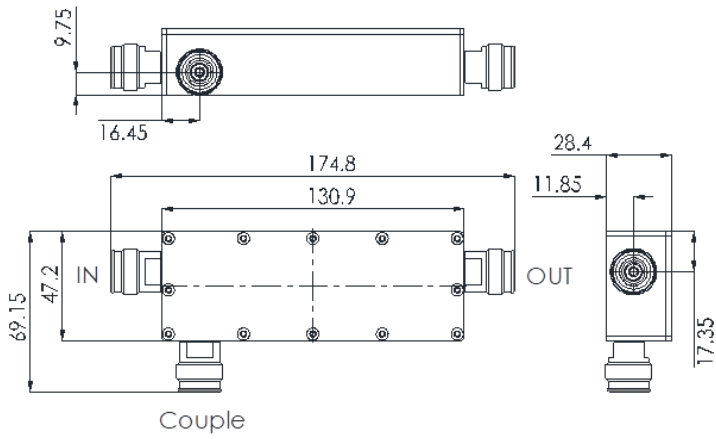
|                   |         |                          |
|-------------------|---------|--------------------------|
| Temperature Range | °C (°F) | -25 to +65 (-13 to +149) |
|-------------------|---------|--------------------------|

**MECHANICAL SPECIFICATIONS**

|        |         |              |
|--------|---------|--------------|
| Height | mm (in) | 28.4 (1.12)  |
| Width  | mm (in) | 69.2 (2.72)  |
| Length | mm (in) | 174.8 (6.88) |

**TESTING AND ENVIRONMENTAL**

|                     |  |      |
|---------------------|--|------|
| Environmental Class |  | IP65 |
|---------------------|--|------|



[External Document Links](#)

**Notes**

Directivity:  $\geq 20\text{dB}$  @ 694-2700MHz,  $\geq 18\text{dB}$  @ 2700-3800MHz