



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 | 0.7 |
| Coupling Value | dB | 10 |
| Coupling Flatness max. | dB | ±1.0 |
| Intermodulation (IM3) | | -160dBc (2x43dBm) |

TEMPERATURE SPECIFICATIONS

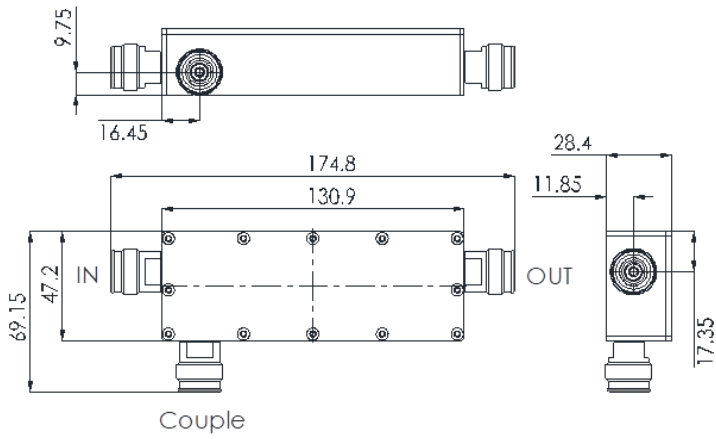
| | | |
|-------------------|---------|--------------------------|
| Temperature Range | °C (°F) | -25 to +65 (-13 to +149) |
|-------------------|---------|--------------------------|

MECHANICAL SPECIFICATIONS

| | | |
|--------|---------|--------------|
| Height | mm (in) | 28.4 (1.12) |
| Width | mm (in) | 69.2 (2.72) |
| Length | mm (in) | 174.8 (6.88) |
| Weight | kg (lb) | 0.45 (0.99) |

TESTING AND ENVIRONMENTAL

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



External Document Links

Notes

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