



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

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)

Impedance	Ohm	50
Total Input Power	W	400

#### TEMPERATURE SPECIFICATIONS

Temperature Range	°C (°F)	-25 to +65 (-13 to +149)
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#### 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
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### 30dB Directional Coupler



## Notes

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

REV : B

REV DATE : 08 Apr 2020

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