RFS Technologies CDS*-43 series Directional Couplers 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 - 3	3800
Connector Type		4.3- fema	. •
Max. VSWR / Return Loss	VSWR/dB	1.30/ (1.3	
Insertion Loss max.	dB	0.4	1
Coupling Value	dB	15	;
Coupling Flatness max.	dB	±1.	0
Intermodulation (IM3)		-160d	

Impedance	Ohm	50
Total Input Power	W	400

TEMPERATURE SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

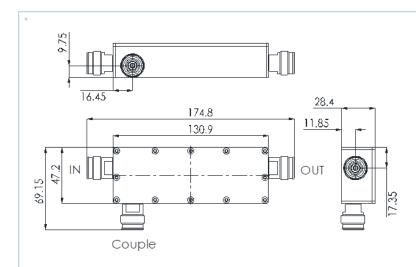
Height	mm (in)	28.4 (1.12)
Width	mm (in)	69.2 (2.72)
Length	mm (in)	174.8 (6.88)

TESTING AND ENVIRONMENTAL

Environmental Class	IP65	

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External Document Links

Notes

Directivity: ≥ 20dB @ 694-2700MHz, ≥ 18dB @ 2700-3800MHz

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