



30dB Directional Coupler

RFS CDS*-43 series Directional Couplers have been designed for a variety of wireless applications in the frequency band from 698 to 2700MHz. 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.



CDS20-43-698-2700-01
Directional Coupler

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/Outdoor
Number of Input Ports		1
Number of Output Ports		2
Connector Type		4.3-10 female

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	698 - 2700
Impedance	Ohm	50
Insertion Loss max.	dB	0.3
Max. VSWR / Return Loss	VSWR/dB	1.30
Intermodulation (IM3)		-160dBc (2x43dBm)
Coupling Value	dB	30.0
Directivity min.	dB	20
Coupling Flatness max.	dB	±1.0
Total Input Power	W	300

TEMPERATURE SPECIFICATIONS

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

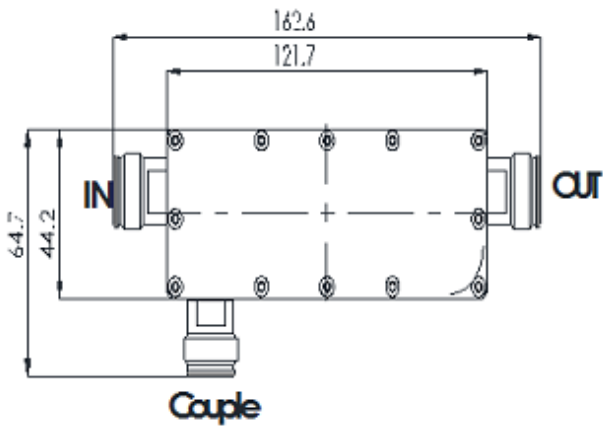
Height	mm (in)	28.4 (1.12)
Width	mm (in)	64.7 (2.55)
Length	mm (in)	162.6 (6.4)
Weight	kg (lb)	0.4 (0.88)

TESTING AND ENVIRONMENTAL

Environmental Class		IP65
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External Document Links

Notes