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

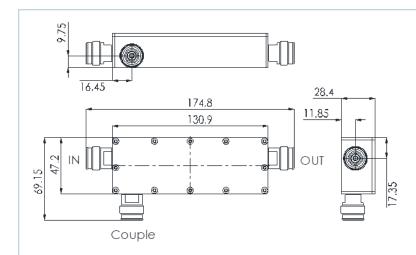
 Total Input Power
 W
 400

## **TEMPERATURE SPECIFICATIONS**

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