



CDS20-43-617/3800-ECO

20dB Directional Coupler



RFS CDS*-43-617/3800-ECO series Directional Couplers have been designed for a variety of wireless applications in the frequency band from 617 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
Number of Input Ports	1
Number of Output Ports	2
Connector Type	4.3-10 female

ELECTRICAL SPECIFICATIONS

lower frequency	upper frequency
617	3800
Impedance	50 Ω
Insertion Loss max.	0.3 dB
Max. VSWR / Return Loss	1.3 (17.7)
Intermodulation (IM3)	-160dBc (2x43dBm)
Coupling Value	20 dB
Directivity min.	20
Total Input Power	400 W

TEMPERATURE SPECIFICATIONS

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

Height	22mm (0.866in)
Width	40.4mm (1.591in)
Length	120mm (4.724in)
Weight	0.33kg (0.728lb)

TESTING AND ENVIRONMENTAL

Environmental Class	IP65
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External Document Links

Notes