



CDS15E-350/3800-01
15dB Directional Coupler

RFS CDS**E series Directional Coupler has been designed for outdoor applications covering 350 to 3800MHz. Units couple off a defined fraction of signal from 5 to 30 dB with minimal reflections or loss. The frequency range allows use with antennas and leaky cable systems and in wireless base stations. With minimal solder joints, the dissipative loss has been minimized and reliability enhanced.



Features / Benefits

- **15 dB coupling value**
- **Low insertion loss**
- **High power handling**
- **Small size, Low weight**
- **N-female connectors**
- **PIM optimized design(-155 dBc@ 2x43dBm)**

Technical Features

STRUCTURE

Product Type	Directional Coupler
Number of Input Ports	1
Number of Output Ports	2
Connector Type	N female

ELECTRICAL SPECIFICATIONS

Impedance	50 Ω
Insertion Loss max.	0.54 dB
Max. VSWR / Return Loss	1.25 (19.1)
Intermodulation (IM3)	-155 dBc with 2x43 dBm
Coupling Value	15 dB
Directivity min.	20dB
Coupling Flatness max.	± 1.3 dB
Total Input Power	300 W

TEMPERATURE SPECIFICATIONS

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

Height	26.3mm (1.035in)
Width	49.3mm (1.94in)
Length	179mm (7.047in)
Weight	0.6kg (1.323lb)

TESTING AND ENVIRONMENTAL

Environmental Class	IP65
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External Document Links

Notes