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Powertec Wireless Technology ABN: 42 082 948 463 PO Box 1034, Ashmore City Queensland, Australia, 4214 sales@powertec.com.au 1300 769 378

CommScope Directional Coupler, 20 dB, 555-6000 MHz, 4.3-10 Female, - 165 dBc

SKU ACC-CS-00023 MPN C-20-UW-43-AI6

Description

The CommScope Directional Coupler (SKU: ACC-CS-00023, Part Number: C-20-UW-43-Al6) is a high-performance RF passive component designed for efficient signal distribution. Operating within a frequency range of 555-6000 MHz, this coupler provides a coupling value of 20 dB. It features a robust IP67-rated design, ensuring durability in harsh environments, and operates efficiently in temperatures from -35 °C to 85 °C.

Key electrical specifications include a 3rd Order PIM rating of -165 dBc and a standard input impedance of 50 Ω . The coupler offers a VSWR of 1.3:1 for frequencies 4900-6000 MHz, with insertion loss at 0.30 dB and inter-port isolation >30 dB. For frequencies 555-2700 MHz, the VSWR is 1.2:1 with isolation >35 dB. Between 3800-4900 MHz, it maintains a VSWR of 1.3:1 and isolation >36 dB, and for 2700-3800 MHz, the isolation exceeds 38 dB.

Equipped with 4.3-10 Female connectors on the input, output, and coupled ports, it meets ISO...

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CommScope

CommScope (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. As a communications infrastructure leader, we shape the always-on networks of tomorrow. For more than 40 years, our global team of greater than 20,000 employees, innovators and technologists have empowered customers in all regions of the world to anticipate what's next and push the boundaries of ...

RF Specification

Min. Frequency

555 MHz

Max. Frequency

6000 MHz

Coupling / Split

20 dB

Input Impedance

50 Ω

Max. Input Power

300 W

PIM, 3rd Order

-165 dBc

Port Matrix

Port Function RF Interface

Input 4.3-10 Female

Output 4.3-10 Female

Coupled 4.3-10 Female

Frequency Test Data

Start Frequency Stop Frequency VSWR Insertion Loss Inter-Port Iso.

4900 MHz	6000 MHz	< 1.3:1 0.3 dB	> 30 dB
555 MHz	2700 MHz	< 1.2:1	> 35 dB
3800 MHz	4900 MHz	< 1.3:1	> 36 dB
2700 MHz	3800 MHz	< 1.25:1	> 38 dB

Physical Specification

Input Ports

1

Output Ports

2

Subtype

Directional Coupler

Ingress Protection

IP67

Dimensions

159 by 72 by 22

Weight

0.38 kg

Min. Operating Temperature

-35 °C

Max. Operating Temperature

85 °C

Compliance/Certifications

ISO 9001 Quality Management

RoHS

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