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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-AI6) 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 (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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