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CommScope Directional Coupler, 5 dB, 555-6000 MHz, 4.3-10 Female, -165 dBc

SKU
ACC-CS-00025
MPN
C-5-UW-43-AI6

Description

The CommScope Directional Coupler (Model: C-5-UW-43-AI6, SKU: ACC-CS-00025) offers a coupling value of 5 dB across a broad frequency range of 555 to 6000 MHz. This RF passive component features 4.3-10 Female connectors for both input and output, ensuring compatibility and ease of integration in diverse systems. The coupler is designed to withstand challenging environments with an IP67 rating and operates reliably between -35°C and 85°C.

Engineered for optimal performance, it boasts a 3rd Order PIM rating of -165 dBc and maintains an input impedance of 50 Ω. It is ISO 9001 certified, reflecting its adherence to high-quality standards. The product ensures minimal signal loss and excellent isolation, with a VSWR of 1.2:1 and insertion loss of 2.40 dB from 555 to 2700 MHz. The inter-port isolation improves progressively from >17 dB at lower frequencies to >25 dB at the higher end of the spectrum.

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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
4.8 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

Frequency Test Data

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

555 MHz	2700 MHz	< 1.2:1	2.4 dB	> 17 dB
2700 MHz	3800 MHz	< 1.25:1		> 21 dB
3800 MHz	4900 MHz	< 1.3:1		> 23 dB
4900 MHz	6000 MHz			> 25 dB

Physical Specification

Input Ports
1
Output Ports
2
Subtype
Directional Coupler
Ingress Protection
IP67
Dimensions
156 by 70 by 23
Weight
0.36 kg
Min. Operating Temperature
-35 °C
Max. Operating Temperature
85 °C
Compliance/Certifications
ISO 9001 Quality Management

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