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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-A16, 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.

Manufactured by CommScope, a leader in...

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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

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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