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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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RF Specification

Min. Frequency:	555 MHz	Input Impedance:	50 Ω
Max. Frequency:	6000 MHz	Max. Input Power:	300 W
Coupling / Split:	4.8 dB	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	Min. Operating Temperature:	-35 °C
Output Ports:	2	Max. Operating Temperature:	85 °C
Subtype:	Directional Coupler	Compliance/Certifications:	ISO 9001 Quality Management
Ingress Protection:	IP67		
Dimensions:	156 by 70 by 23		
Weight:	0.36 kg		

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