

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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RF Specification

Min. Frequency:	555 MHz	Input Impedance:	50
Max. Frequency:	6000 MHz	Max. Input Power:	300 W
Coupling / Split:	20 dB	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	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	RoHS	
Dimensions:	159 by 72 by 22		
Weight:	0.38 kg		

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