

CommScope Directional Coupler, 30 dB, 555-6000 MHz, 4.3-10 Female, -165 dBc

SKU: ACC-CS-00024

MPN: C-30-UW-43-AI6

Description

The CommScope Directional Coupler (SKU: ACC-CS-00024) is a high-performance RF passive component designed for efficient signal distribution. Operating within a frequency range of 555 MHz to 6000 MHz, this coupler offers a coupling value of 30 dB, making it ideal for a variety of telecommunications applications. It features a robust 4.3-10 Female connector on both input and output ports, ensuring compatibility and ease of integration into existing systems.

Engineered with a third-order PIM rating of -165 dBc and an input impedance of 50 Ω , the coupler guarantees low interference and high signal integrity. It is IP67 certified for ingress protection, offering durability in harsh environments, and functions reliably in temperatures ranging from -35 °C to 85 °C.

Performance metrics include a VSWR of 1.3:1 and inter-port isolation above 36 dB for frequencies between 4900 and 6000 MHz, with even higher isolation values at lower frequencies...

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RF Specification

Min. Frequency:	555 MHz	Input Impedance:	50
Max. Frequency:	6000 MHz	Max. Input Power:	300 W
Coupling / Split:	30 dB	PIM, 3rd Order:	-165 dBc

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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.
4900 MHz	6000 MHz	< 1.3:1	0.2 dB	> 36 dB
3800 MHz	4900 MHz	< 1.3:1		> 42 dB
2700 MHz	3800 MHz	< 1.25:1		> 44 dB
555 MHz	2700 MHz	< 1.2:1		> 46 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 x 72 x 22		
Weight:	0.38 kg		

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