

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

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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