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CommScope Directional Coupler, 15 dB, 555-6000 MHz, 4.3-10 Female, -165 dBc

SKU
ACC-CS-00022
MPN
C-15-UW-43-AI6

Description

The CommScope Directional Coupler (SKU: ACC-CS-00022) offers reliable RF signal management with a coupling value of 15 dB, covering a frequency range from 555 MHz to 6000 MHz. Engineered with 4.3-10 Female connectors for both input and output, it ensures robust connectivity and minimal signal loss. This component is IP67 rated for superior ingress protection, making it suitable for challenging environments, with an operational temperature range of -35 °C to 85 °C.

The coupler features a low Passive Intermodulation (PIM) rating of -165 dBc and maintains a 50 Ω impedance, adhering to ISO 9001 quality standards. Performance specifications include a VSWR of 1.3:1 and insertion loss of 0.50 dB between 4900 and 6000 MHz, with inter-port isolation exceeding 28 dB. Between 2700 and 3800 MHz, it offers a VSWR of 1.3:1 and isolation > 33 dB, while frequencies from 555 to 2700 MHz and 3800 to 4900 MHz also maintain isolation > 33 dB.

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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
15 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.

4900 MHz	6000 MHz	< 1.3:1	0.5 dB	> 28 dB
2700 MHz	3800 MHz	< 1.25:1		> 33 dB
555 MHz	2700 MHz	< 1.2:1		> 33 dB
3800 MHz	4900 MHz			> 33 dB

Physical Specification

Input Ports
1
Output Ports
2
Subtype
Directional Coupler
Ingress Protection
IP67
Dimensions
159 x 72 x 22 mm
Weight
0.38 kg
Min. Operating Temperature
-35 °C
Max. Operating Temperature
85 °C
Compliance/Certifications
ISO 9001 Quality Management

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