

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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RF Specification

| | | | |
|-------------------|----------|-------------------|----------|
| Min. Frequency: | 555 MHz | Input Impedance: | 50 |
| Max. Frequency: | 6000 MHz | Max. Input Power: | 300 W |
| Coupling / Split: | 15 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 | 0.5 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 | 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: | 159 x 72 x 22 mm | | |
| Weight: | 0.38 kg | | |

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