

CommScope Directional Coupler, 8 dB, 555-6000 MHz, 4.3-10 Female, -165 dBc

SKU: ACC-CS-00027

MPN: C-8-UW-43-A16

Description

The CommScope Directional Coupler (SKU: ACC-CS-00027) is designed for reliable RF signal management across a frequency range of 555 MHz to 2700 MHz. It features a coupling value of 8 dB and operates with a minimal insertion loss of 1.10 dB, ensuring efficient signal distribution. The device supports 4.3-10 Female connectors for all ports, offering ease of integration into existing systems.

With an IP65 rating, this coupler is protected against dust and low-pressure water jets, making it suitable for various indoor and outdoor applications. It functions effectively in temperatures from -35 °C to 85 °C, catering to diverse environmental conditions. The coupler's electrical performance is robust, with a VSWR of 1.2:1, return loss of ≤ 20.80 dB, and inter-port isolation of > 28 dB, ensuring optimal signal clarity and minimal interference.

Manufactured to ISO 9001 and RoHS standards, the coupler guarantees high quality and environmental...

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RF Specification

| | | | |
|-------------------|----------|-------------------|----------|
| Min. Frequency: | 555 MHz | Input Impedance: | 50 |
| Max. Frequency: | 2700 MHz | Max. Input Power: | 300 W |
| Coupling / Split: | 8 dB | PIM, 3rd Order: | -162 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. | Return Loss |
|-----------------|----------------|---------|----------------|-----------------|-------------|
| 555 MHz | 2700 MHz | < 1.2:1 | 1.1 dB | > 28 dB | ≤ 20.8 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: | IP65 | RoHS | |
| Dimensions: | 158 mm x 75 mm x 22 mm | | |
| Weight: | 0.38 kg | | |

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