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Powertec Wireless Technology  
ABN: 42 082 948 463  
PO Box 1034, Ashmore City  
Queensland, Australia, 4214  
sales@powertec.com.au  
1300 769 378

## **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  $\Omega$ , 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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## CommScope

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

30 dB

Input Impedance

50  $\Omega$

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 0.2 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

Output Ports

2

Subtype

[Directional Coupler](#)

Ingress Protection

[IP67](#)

Dimensions

159 x 72 x 22

Weight

0.38 kg

Min. Operating Temperature

-35 °C

Max. Operating Temperature

85 °C

Compliance/Certifications

[ISO 9001 Quality Management](#)

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[RoHS](#)

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