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Powertec RF Directional Coupler, 5 dB, 698 to 3800 MHz, 4.3-10 Female, -155dBc

SKU IBC-PT-00054 MPN PCM-DC5-6940.432 Barcode 9337692001918

Description

Directional Couplers are used to develop complex RF transmission systems where unbalanced signal power levels are required, or to counteract and balance an unbalanced system.

This 4.8 dB (often shortened to 5 dB) directional coupler has been designed for use in 5G transmission and in-building coverage systems, supporting a wide frequency range from 700 to 3800 MHz, extremely low intermodulation with a - 155 dBc PIM rating, and using DAS-compatible 4.3-10 connectors. The model provides exceptional inter-port isolation between coupled and output ports.

With an IP65 ingress protection rating the power divider can be used indoors or outdoors. A sturdy removable stainless steel mounting bracket is included.

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Powertec

Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

RF Specification

Min. Frequency 698 MHz Max. Frequency 3800 MHz Coupling / Split 4.8 dB Input Impedance 50 Ω Max. Input Power 300 W PIM, 3rd Order -155 dBc Port Matrix

Port Label Port Function RF Interface

IN	Input	4.3-10 Female
-5dB	Coupled	4.3-10 Female
OUT	Output	4.3-10 Female
Frequenc	y Test Data	

Start	Stop	VSWR	Insertion	Inter-Port	Return
Frequency	Frequency		Loss	Iso.	Loss
698 MHz	3800 MHz	< 1.25:1	0.2 dB	> 23 dB	≤ 19 dB

Physical Specification

Input Ports 1 **Output Ports** 2 Subtype **Directional Coupler Ingress Protection IP65** Dimensions 170 x 68 x 42 Weight 0.54 kg Materials Aluminium Mounting Screw / Bolt Min. Operating Temperature -25 °C Max. Operating Temperature 85 °C **Compliance/Certifications** ISO 9001 Quality Management

<u>RoHS</u> Drawing

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