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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

Powertec RF Directional Coupler, 20 dB, 698-3800 MHz, 4.3-10 Female, - 155 dBc

SKU IBC-PT-00027 MPN PCM-DC20-6940.432 Barcode 9337692001642

Description

The Powertec RF Directional Coupler (SKU: IBC-PT-00027), part number PCM-DC20-6940.432, is designed for efficient RF signal management in the frequency range of 698 to 3800 MHz. With a coupling value of 20 dB, this coupler ensures reliable performance in various wireless communication applications. Its compact dimensions are 129x23.5x48 mm, making it suitable for space-constrained installations.

Featuring an IP65 ingress protection rating, the coupler is built to withstand challenging environments, operating effectively between -25 °C and 75 °C. The 4.3-10 Female connectors on the input, output, and coupled ports provide robust connectivity. Its electrical performance includes a 3rd Order PIM rating of -155 dBc and an input impedance of 50 Ω .

The coupler demonstrates a VSWR of less than 1.3:1, an Insertion Loss of 0.40 dB, and Inter-Port Isolation greater than 33 dB, ensuring minimal signal degradation and high isolation between ports.

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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

20 dB

Input Impedance

50 Ω

Max. Input Power

300 W

PIM, 3rd Order

-155 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.

698 MHz 3800 MHz < 1.3:1 0.4 dB > 33 dB

Physical Specification

Input Ports

1

Output Ports

2

Subtype

Directional Coupler

Ingress Protection

IP65

Dimensions

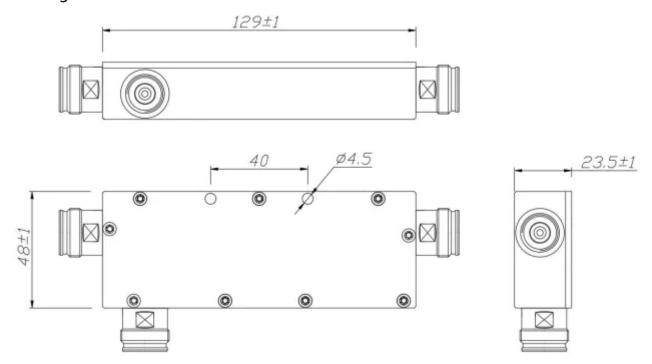
129x23.5x48

Weight

0.38 kg

Min. Operating Temperature

-25 °CMax. Operating Temperature75 °CDrawing



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