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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 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

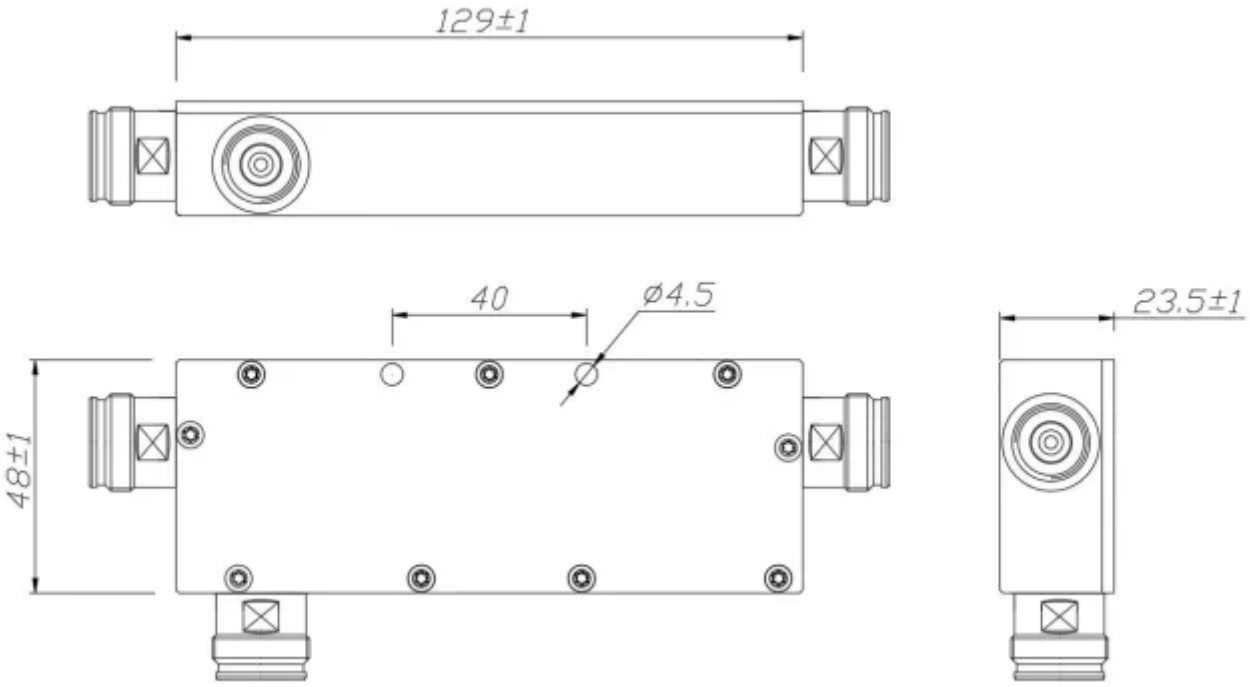
Frequency Test Data

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 °C
Max. Operating Temperature
75 °C
Drawing



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