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Powertec RF Directional Coupler, 15 dB, 698-3800 MHz, 4.3-10 Female, -155 dBc

SKU
IBC-PT-00026
MPN
PCM-DC15-6940.432
Barcode
9337692001635

Description

The Powertec RF Directional Coupler (SKU: IBC-PT-00026) is a high-performance component designed for RF passive applications. Operating over a frequency range of 698 MHz to 3800 MHz, it offers a coupling value of 15 dB. The unit features a 4.3-10 Female connector for the input, output, and coupled ports, ensuring consistent performance across all interfaces.

With an IP65 rating, this coupler is robust and suitable for outdoor installations, handling temperatures from -25 °C to 75 °C. It boasts excellent electrical characteristics, including a 3rd Order PIM rating of -155 dBc and a 50 Ω input impedance, crucial for maintaining signal integrity in demanding environments.

The coupler achieves a VSWR of less than 1.3:1 and provides inter-port isolation greater than 28 dB, enhancing signal quality and reducing interference. Compliance with RoHS standards underscores its commitment to environmental responsibility.

Manufactured by Powertec, a...

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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
15 dB
Input Impedance
50 Ω
Max. Input Power
300 W
PIM, 3rd Order
-155 dBc
Port Matrix

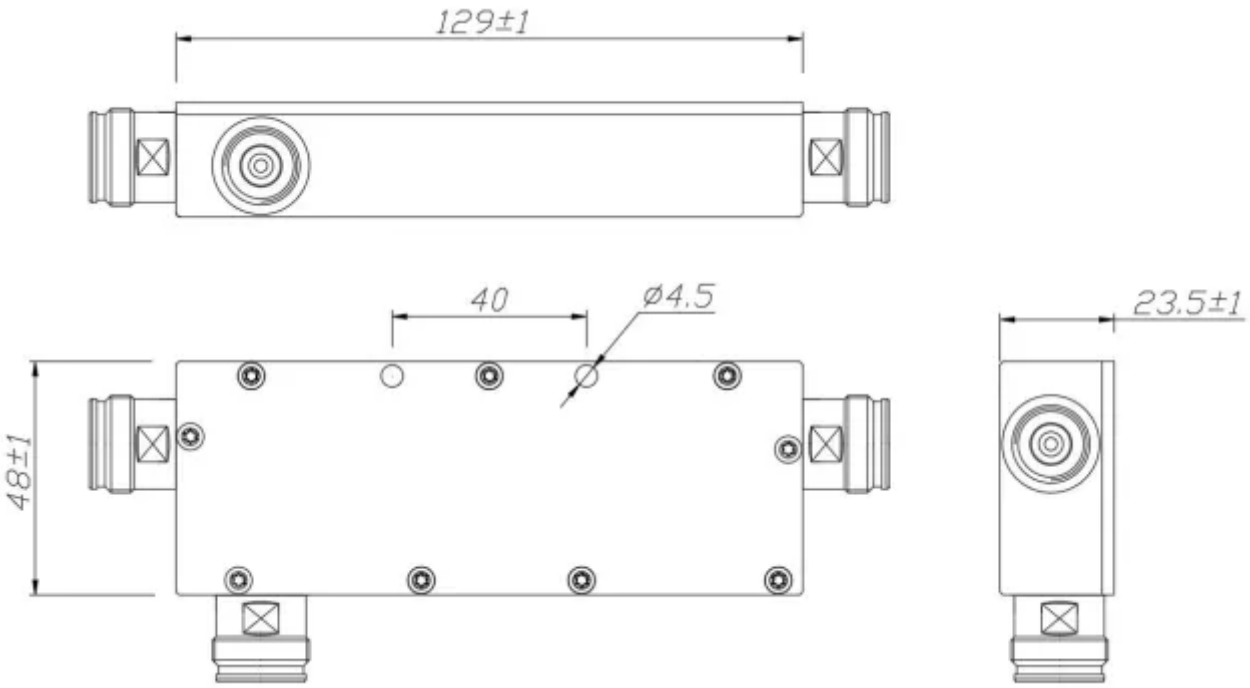
Port Function	RF Interface
Input	4.3-10 Female
Output	4.3-10 Female
Coupled	4.3-10 Female

Frequency Test Data

Start Frequency	Stop Frequency	VSWR	Inter-Port Iso.
698 MHz	3800 MHz	< 1.3:1 >	28 dB

Physical Specification

Input Ports
1
Output Ports
2
Subtype
Directional Coupler
Ingress Protection
IP65
Dimensions
129x48x23.5
Weight
0.38 kg
Materials
Aluminium
Min. Operating Temperature
-25 °C
Max. Operating Temperature
75 °C
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS
Drawing



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