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Powertec Wireless Technology
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Powertec RF Directional Coupler, 8 dB, 698 to 3800 MHz, 4.3-10 Female, -155 dBc

SKU
IBC-PT-00056
MPN
PCM-DC8-6940.432
Barcode
9337692001932

Description

The Powertec RF Directional Coupler, model PCM-DC8-6940.432, is a high-performance component designed for RF signal management. Offering an 8 dB coupling value, it operates efficiently across a broad frequency range of 698 to 3800 MHz. This coupler features 4.3-10 Female connectors on all ports, ensuring compatibility with a wide range of systems.

Engineered for durability, it has an IP65 ingress protection rating, making it suitable for outdoor and harsh environments. It operates within temperatures ranging from -25 °C to 75 °C, and features a robust 3rd Order PIM rating of -155 dBc. The input impedance is standard at 50 Ω , aligning with industry norms.

The Powertec coupler maintains a VSWR of less than 1.3:1, with a minimal insertion loss of 0.80 dB and inter-port isolation greater than 28 dB, ensuring optimal signal integrity. It complies with RoHS standards, reflecting its adherence to environmental and safety regulations.

Powertec, an...

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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

8 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 0.8 dB

> 28 dB

Physical Specification

Input Ports

1

Output Ports

2

Subtype

[Directional Coupler](#)

Ingress Protection

[IP65](#)

Dimensions

129x48x23.5

Weight

0.38 kg

Min. Operating Temperature

-25 °C

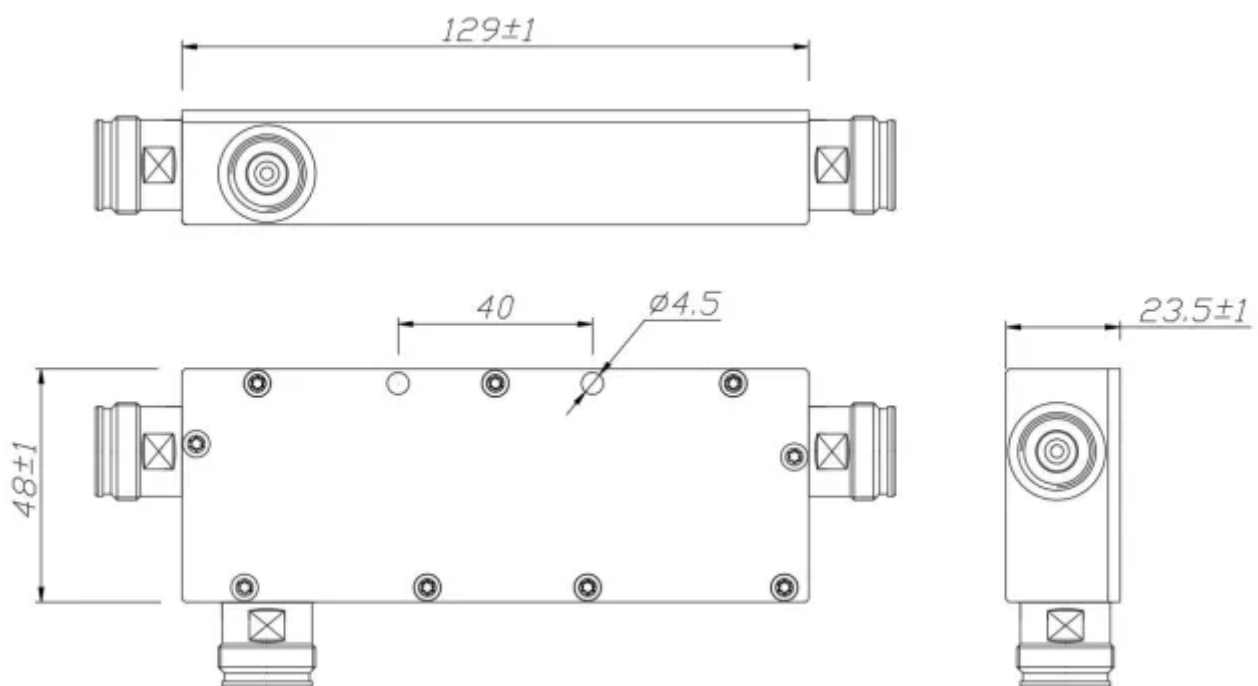
Max. Operating Temperature

75 °C

Compliance/Certifications

[RoHS](#)

Drawing



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