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Powertec Wireless Technology  
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# **Powertec RF Directional Coupler, 6 dB, 698 to 3800 MHz, 4.3-10 Female, -155 dBc**

SKU  
IBC-PT-00055  
MPN  
PCM-DC6-6940.432  
Barcode  
9337692001925

## Description

The Powertec RF Directional Coupler (SKU: IBC-PT-00055, Part Number: PCM-DC6-6940.432) is a high-performance component designed for RF applications. Covering a frequency range of 698 to 3800 MHz, it offers a 6 dB coupling value with minimal signal loss, ensuring efficient power distribution. This coupler features a robust IP65-rated design, providing reliable operation in harsh environments with temperature tolerance from -25 °C to 75 °C.

Equipped with 4.3-10 Female connectors on all ports, it maintains a low VSWR of 1.3:1 and an insertion loss of only 0.80 dB. It delivers excellent inter-port isolation of over 28 dB, enhancing signal integrity. The device's 3rd Order PIM rating of -155 dBc further ensures superior performance in demanding RF applications. Its 50  $\Omega$  input impedance is standard for seamless integration into various systems.

This coupler complies with RoHS standards, underscoring its environmentally friendly design. With...

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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

6 dB

Input Impedance

50  $\Omega$

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

129x40x23.5

Weight

0.38 kg

Min. Operating Temperature

-25 °C

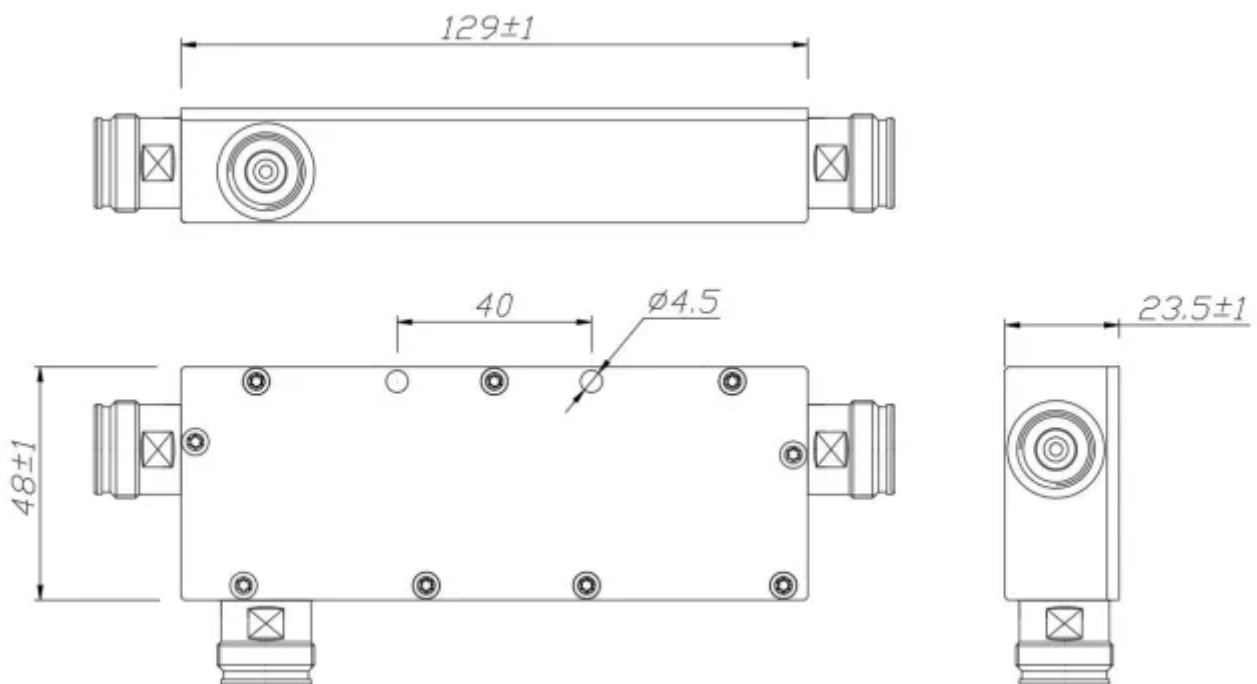
Max. Operating Temperature

75 °C

Compliance/Certifications

[RoHS](#)

Drawing



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