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, 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 Ω input impedance is standard for seamless integration into various systems.

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

Read More



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

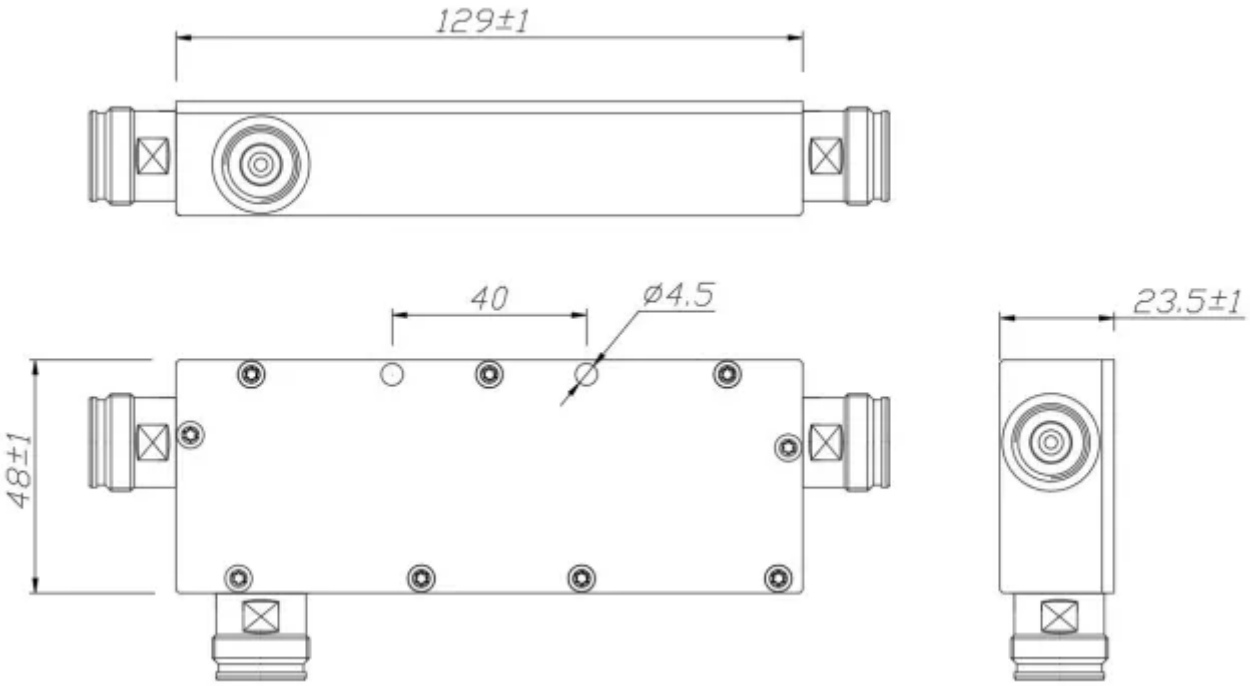
Port Function	RF Interface
Input	4.3-10 Female
Output	4.3-10 Female
Coupled	4.3-10 Female

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
129x40x23.5
Weight
0.38 kg
Min. Operating Temperature
-25 °C
Max. Operating Temperature
75 °C
Compliance/Certifications
RoHS
Drawing



Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

