

# 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](#)



## RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	Max. Input Power:	300 W
Coupling / Split:	6 dB	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

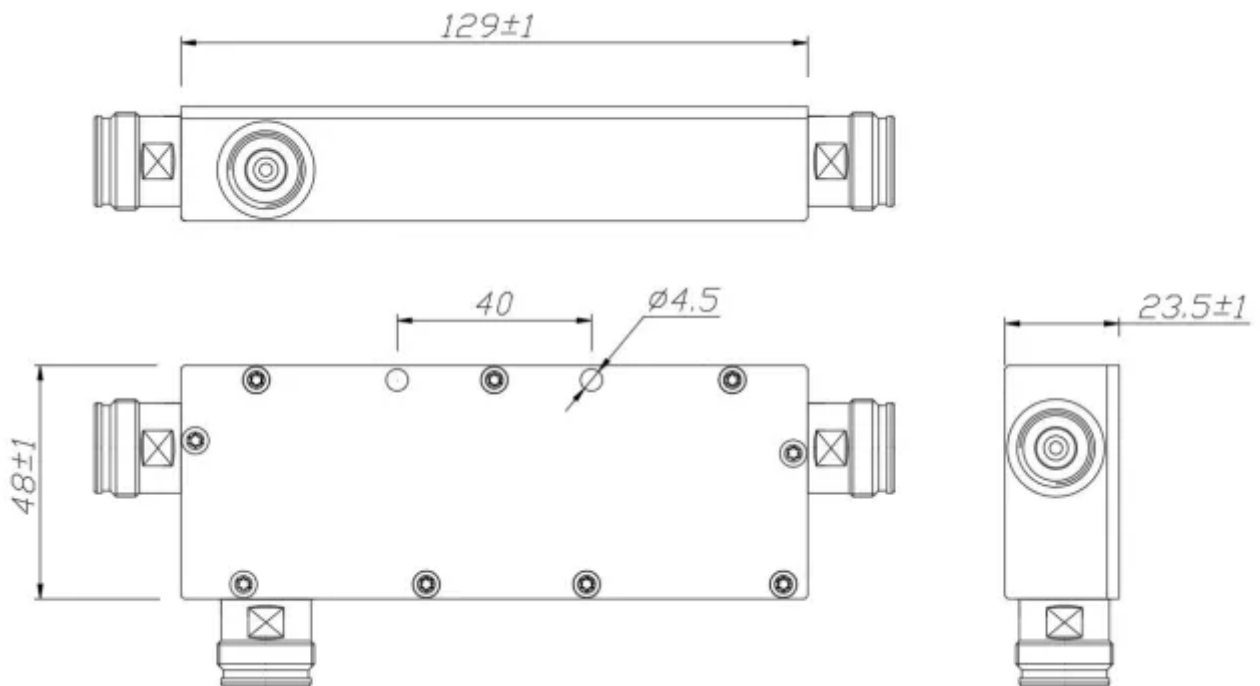
#### Frequency Test Data

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	Min. Operating Temperature:	-25 °C
Output Ports:	2	Max. Operating Temperature:	75 °C
Subtype:	Directional Coupler	Compliance/Certifications:	RoHS
Ingress Protection:	IP65		
Dimensions:	129x40x23.5		
Weight:	0.38 kg		

## 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.

