

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.

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RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	Max. Input Power:	300 W
Coupling / Split:	15 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

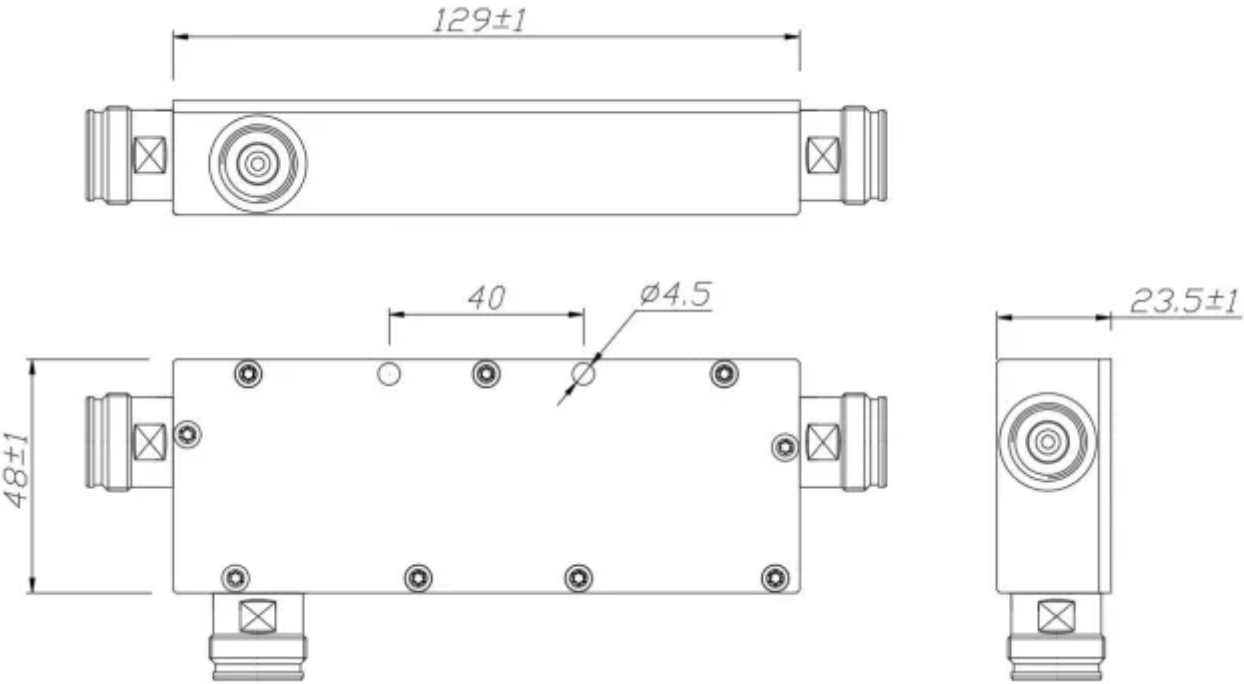
Frequency Test Data

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

Physical Specification

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

Drawing



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