

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.

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RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	Max. Input Power:	300 W
Coupling / Split:	8 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

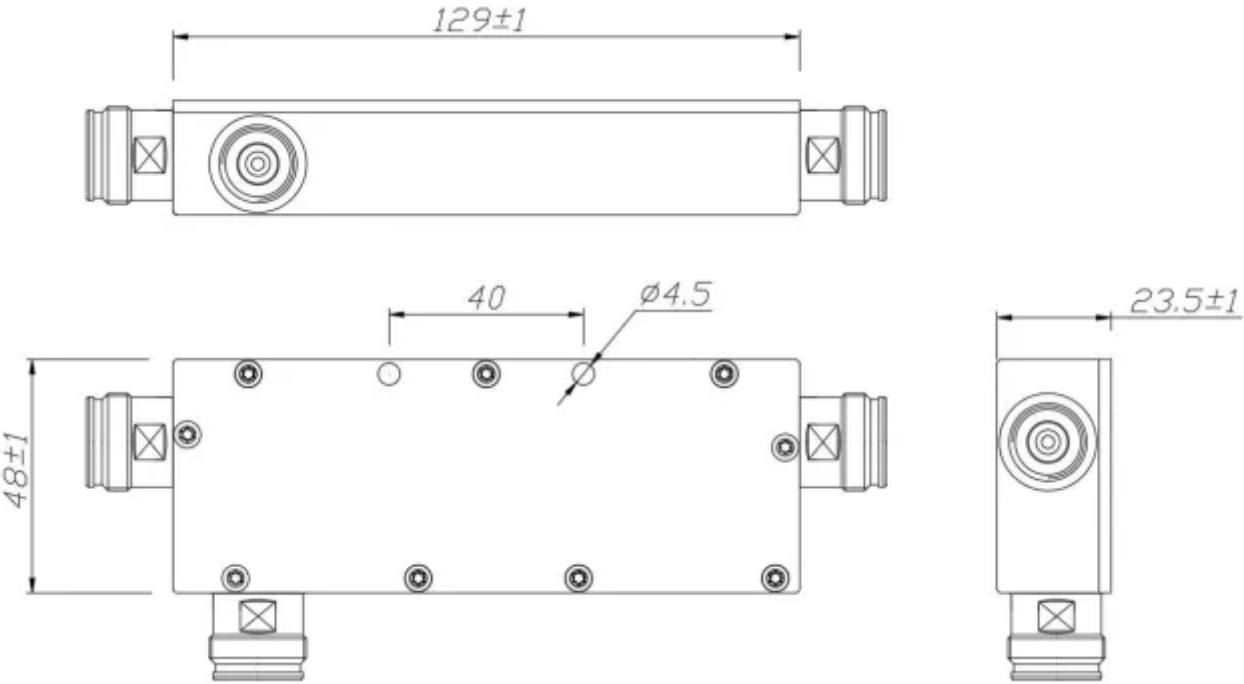
Frequency Test Data

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:	129x48x23.5		
Weight:	0.38 kg		

Drawing



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