

Powertec RF Directional Coupler, 20 dB, 698-3800 MHz, 4.3-10 Female, -155 dBc

SKU: IBC-PT-00027

MPN: PCM-DC20-6940.432

Barcode: 9337692001642

Description

The Powertec RF Directional Coupler (SKU: IBC-PT-00027), part number PCM-DC20-6940.432, is designed for efficient RF signal management in the frequency range of 698 to 3800 MHz. With a coupling value of 20 dB, this coupler ensures reliable performance in various wireless communication applications. Its compact dimensions are 129x23.5x48 mm, making it suitable for space-constrained installations.

Featuring an IP65 ingress protection rating, the coupler is built to withstand challenging environments, operating effectively between -25 °C and 75 °C. The 4.3-10 Female connectors on the input, output, and coupled ports provide robust connectivity. Its electrical performance includes a 3rd Order PIM rating of -155 dBc and an input impedance of 50 Ω.

The coupler demonstrates a VSWR of less than 1.3:1, an Insertion Loss of 0.40 dB, and Inter-Port Isolation greater than 33 dB, ensuring minimal signal degradation and high isolation between ports.

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RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	Max. Input Power:	300 W
Coupling / Split:	20 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

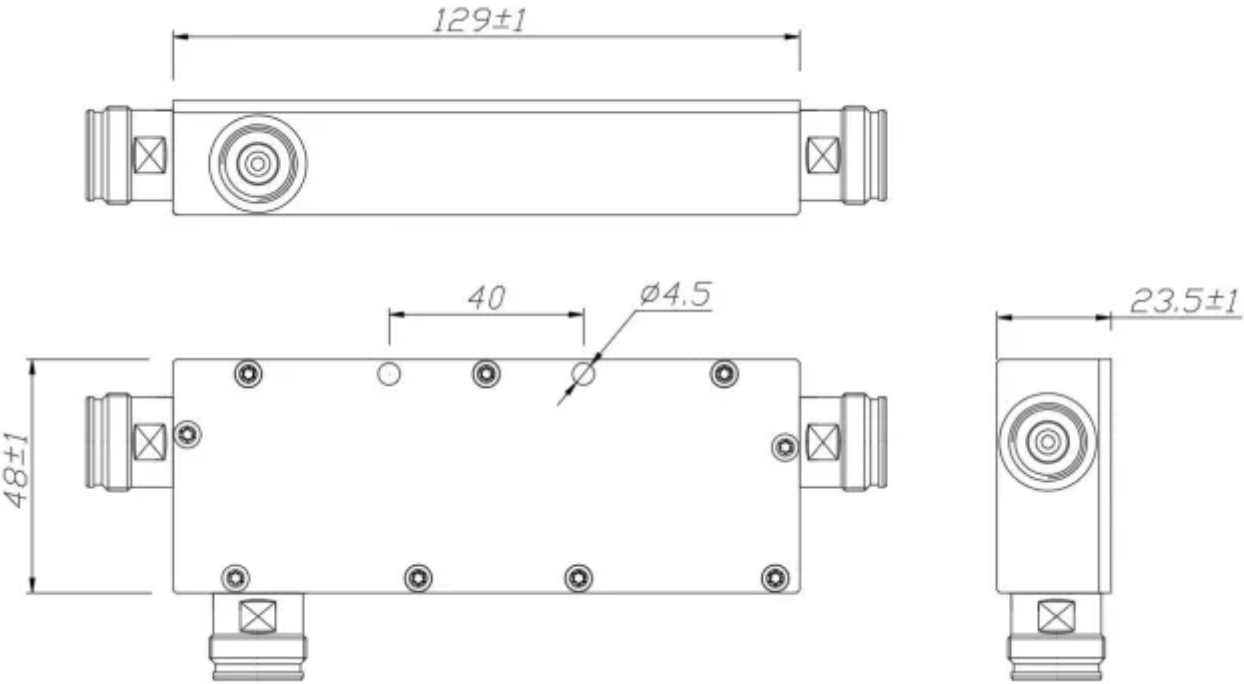
Frequency Test Data

Start Frequency	Stop Frequency	VSWR	Insertion Loss	Inter-Port Iso.
698 MHz	3800 MHz	< 1.3:1	0.4 dB	> 33 dB

Physical Specification

Input Ports:	1	Min. Operating Temperature:	-25 °C
Output Ports:	2	Max. Operating Temperature:	75 °C
Subtype:	Directional Coupler		
Ingress Protection:	IP65		
Dimensions:	129x23.5x48		
Weight:	0.38 kg		

Drawing



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