

# Powertec RF Directional Coupler, 5 dB, 698 to 3800 MHz, 4.3-10 Female, -155dBc

SKU: IBC-PT-00054  
 MPN: PCM-DC5-6940.432  
 Barcode: 9337692001918

## Description

Directional Couplers are used to develop complex RF transmission systems where unbalanced signal power levels are required, or to counteract and balance an unbalanced system.

This 4.8 dB (often shortened to 5 dB) directional coupler has been designed for use in 5G transmission and in-building coverage systems, supporting a wide frequency range from 700 to 3800 MHz, extremely low intermodulation with a -155 dBc PIM rating, and using DAS-compatible 4.3-10 connectors. The model provides exceptional inter-port isolation between coupled and output ports.

With an IP65 ingress protection rating the power divider can be used indoors or outdoors. A sturdy removable stainless steel mounting bracket is included.

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## RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	Max. Input Power:	300 W
Coupling / Split:	4.8 dB	PIM, 3rd Order:	-155 dBc

Port Matrix

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 ...

Port Label	Port Function	RF Interface
IN	Input	4.3-10 Female
-5dB	Coupled	4.3-10 Female
OUT	Output	4.3-10 Female

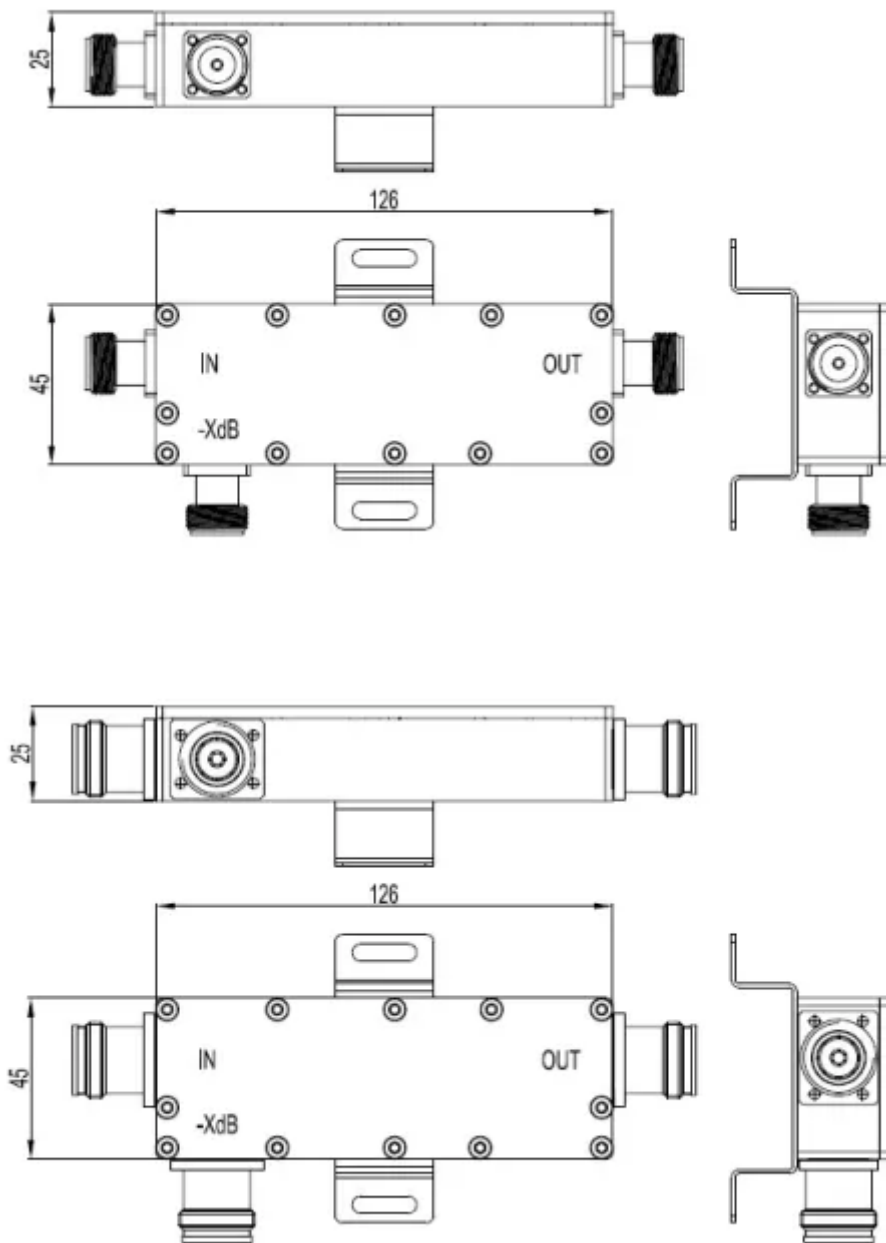
#### Frequency Test Data

Start Frequency	Stop Frequency	VSWR	Insertion Loss	Inter-Port Iso.	Return Loss
698 MHz	3800 MHz	< 1.25:1	0.2 dB	> 23 dB	≤ 19 dB

## Physical Specification

Input Ports:	1	Materials:	Aluminium
Output Ports:	2	Mounting:	Screw / Bolt
Subtype:	Directional Coupler	Min. Operating Temperature:	-25 °C
Ingress Protection:	IP65	Max. Operating Temperature:	85 °C
Dimensions:	170 x 68 x 42	Compliance/Certifications:	ISO 9001 Quality Management
Weight:	0.54 kg	RoHS	

# Drawing



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