

# 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.

[Read More](#)



# 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

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

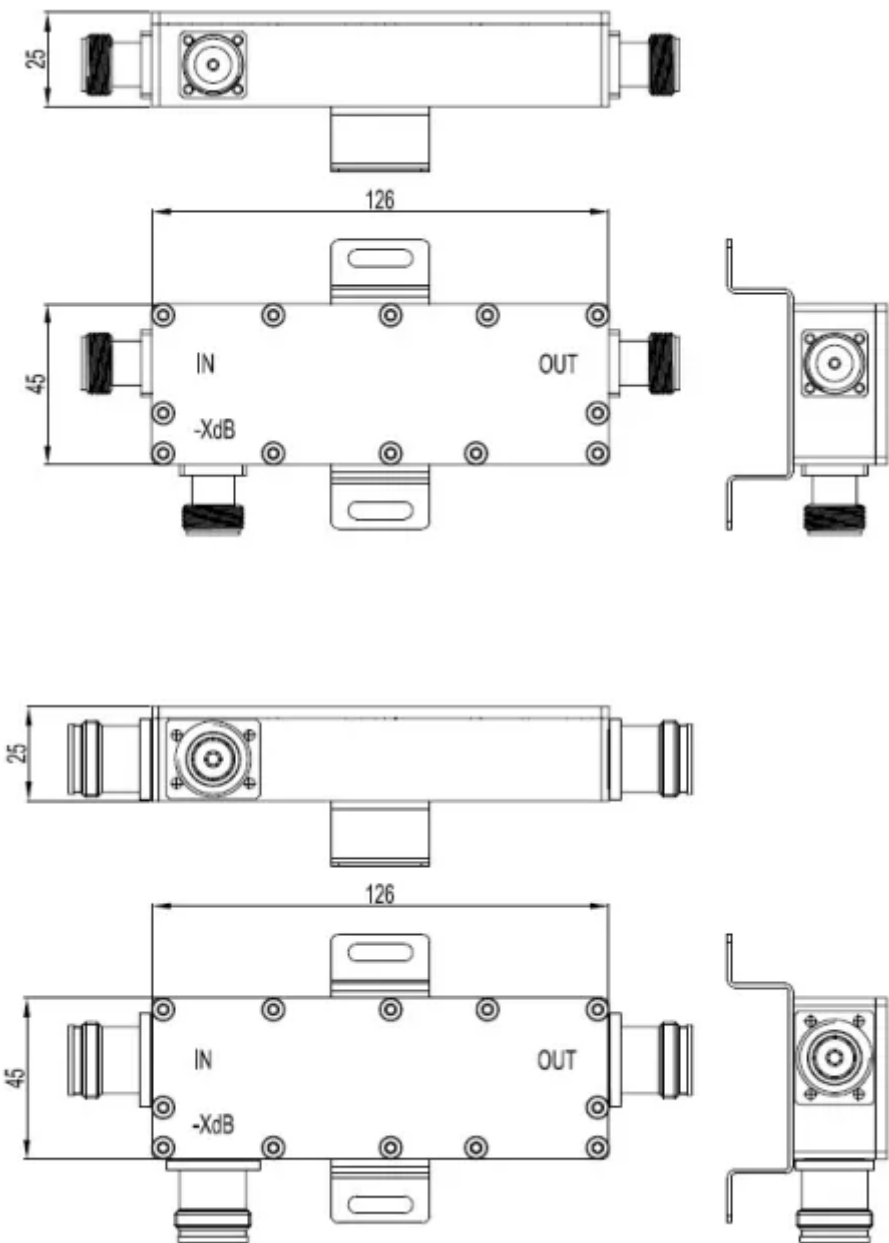
## Frequency Test Data

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



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.

