Powertec Wireless Technology
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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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Powertec

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 ...

RF Specification

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

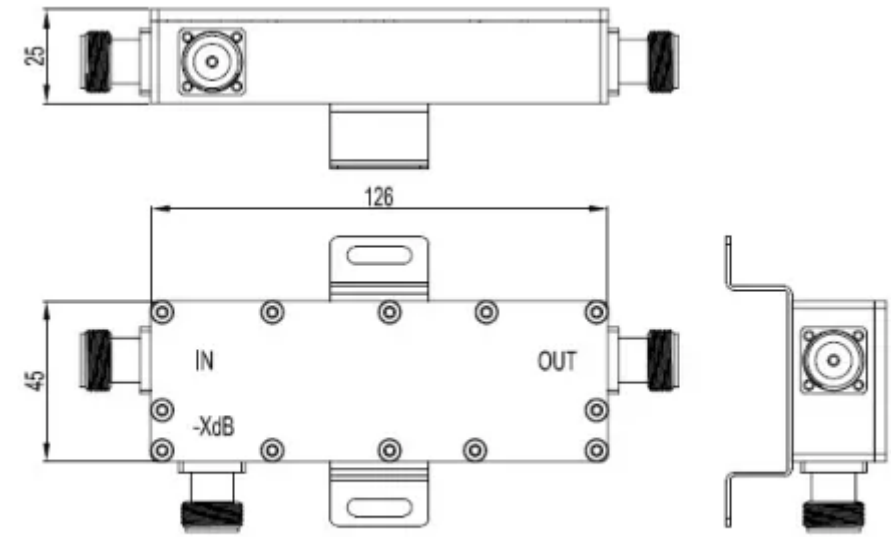
Port Label	Port Function	RF Interface
IN	Input	4.3-10 Female
-5dB	Coupled	4.3-10 Female
OUT	Output	4.3-10 Female

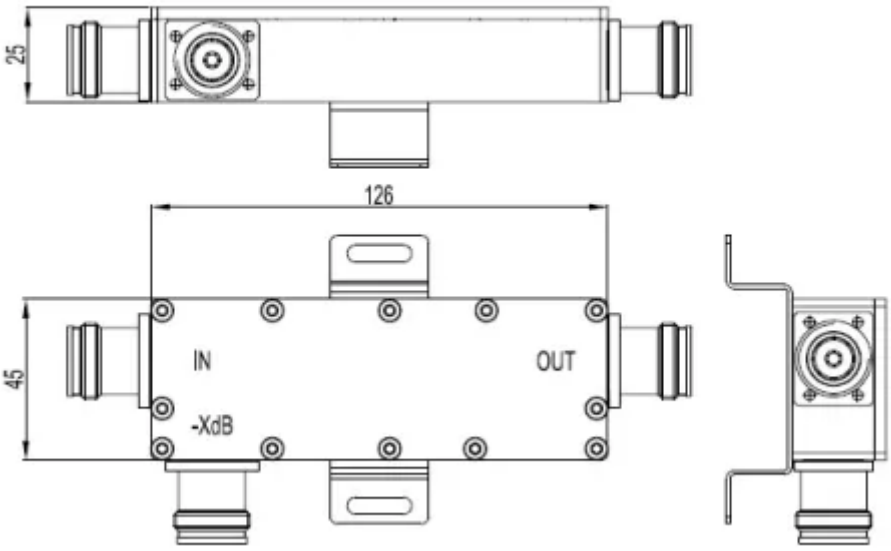
Frequency Test Data

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





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