

Powertec 4x4 Hybrid Coupler, 698 to 3800 MHz, 4.3-10 Female, -155 dBc

SKU: IBC-PT-00051

MPN: PCM-HY4-6940.432

Barcode: 9337692001888

Description

Hybrid Couplers are used to develop advanced RF transmission systems where interaction-free signal combining is required. 4x4 matrices are typically used as an in-building multi-network combiner.

This 4x4 Hybrid Matrix has been developed for use as a 4G-5G MNC in passive in-building coverage systems, along with supporting high powered defence and aerospace technologies. The unit supports a wide frequency range from 700 to 3800 MHz, extremely low intermodulation with a -160 dBc PIM rating, and using DAS-compatible 4.3-10 connectors.

With an IP65 ingress protection rating this hybrid can be used indoors or outdoors. Stainless steel mounting brackets are included which provides for wall mounting.

Powertec's hybrid couplers have been custom developed for use in the latest generation 5G transmission and passive distribution systems.

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RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	Max. Input Power:	200 W
Coupling / Split:	6 dB	PIM, 3rd Order:	-160 dBc

Powertec
698 MHz

Input Impedance:

50



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 ...

Max. Frequency:

3800 MHz

Max. Input Power:

200 W

Coupling / Split:

6 dB

PIM, 3rd Order:

-160 dBc

Port Matrix

Port Label	Port Function	RF Interface
IN1	Input	4.3-10 Female
IN2	Input	4.3-10 Female
IN3	Input	4.3-10 Female
IN4	Input	4.3-10 Female
OUT1	Coupled	4.3-10 Female
OUT2	Coupled	4.3-10 Female
OUT3	Coupled	4.3-10 Female
OUT4	Coupled	4.3-10 Female

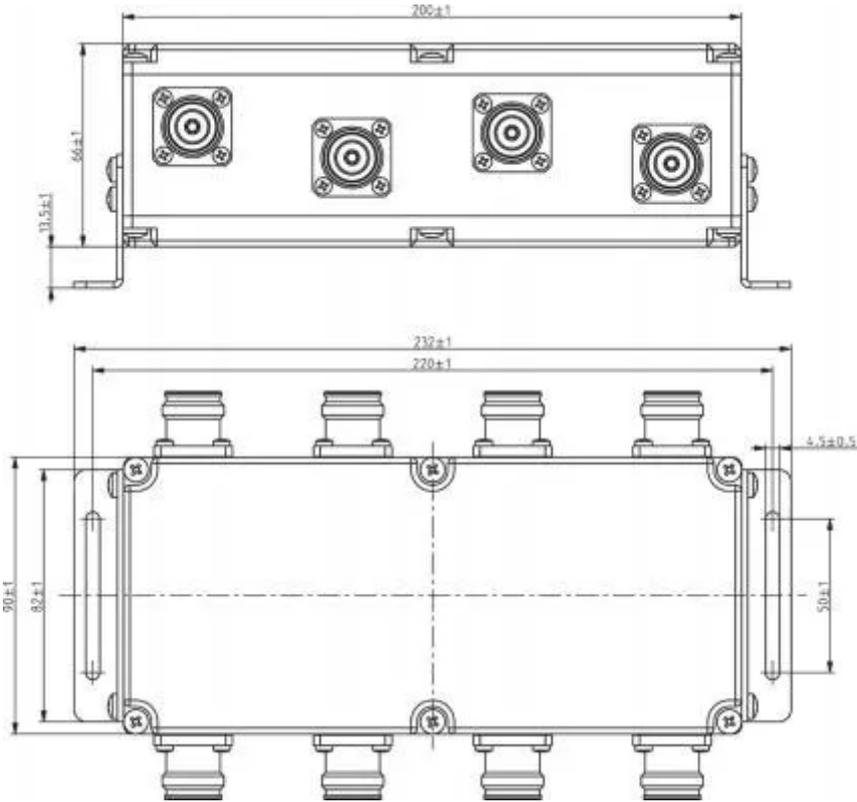
Frequency Test Data

Start Frequency	Stop Frequency	VSWR	Inter-Port Iso.
698 MHz	3800 MHz	< 1.25:1	> 23 dB

Physical Specification

Input Ports:	4	Materials:	Aluminium
Output Ports:	4	Mounting:	Screw / Bolt
Subtype:	Hybrid Coupler	Min. Operating Temperature:	-25 °C
Ingress Protection:	IP65	Max. Operating Temperature:	65 °C
Dimensions:	232 x 179 x 80 mm	Compliance/Certifications:	ISO 9001 Quality Management
Weight:	2.1 kg	RoHS	

Drawing



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