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Powertec Wireless Technology  
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## **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.

[Read More](#)



## [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

6 dB

Input Impedance

50 Ω

Max. Input Power

200 W

PIM, 3rd Order

-160 dBc

Port Matrix

Port Label	Port Function	RF Interface
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IN1	Input	<a href="#">4.3-10 Female</a>
IN2	Input	<a href="#">4.3-10 Female</a>
IN3	Input	<a href="#">4.3-10 Female</a>
IN4	Input	<a href="#">4.3-10 Female</a>
OUT1	Coupled	<a href="#">4.3-10 Female</a>
OUT2	Coupled	<a href="#">4.3-10 Female</a>
OUT3	Coupled	<a href="#">4.3-10 Female</a>
OUT4	Coupled	<a href="#">4.3-10 Female</a>

Frequency Test Data

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

Input Ports

4

Output Ports

4

Subtype

[Hybrid Coupler](#)

Ingress Protection

## [IP65](#)

### Dimensions

232 x 179 x 80 mm

### Weight

2.1 kg

### Materials

[Aluminium](#)

### Mounting

Screw / Bolt

Min. Operating Temperature

-25 °C

Max. Operating Temperature

65 °C

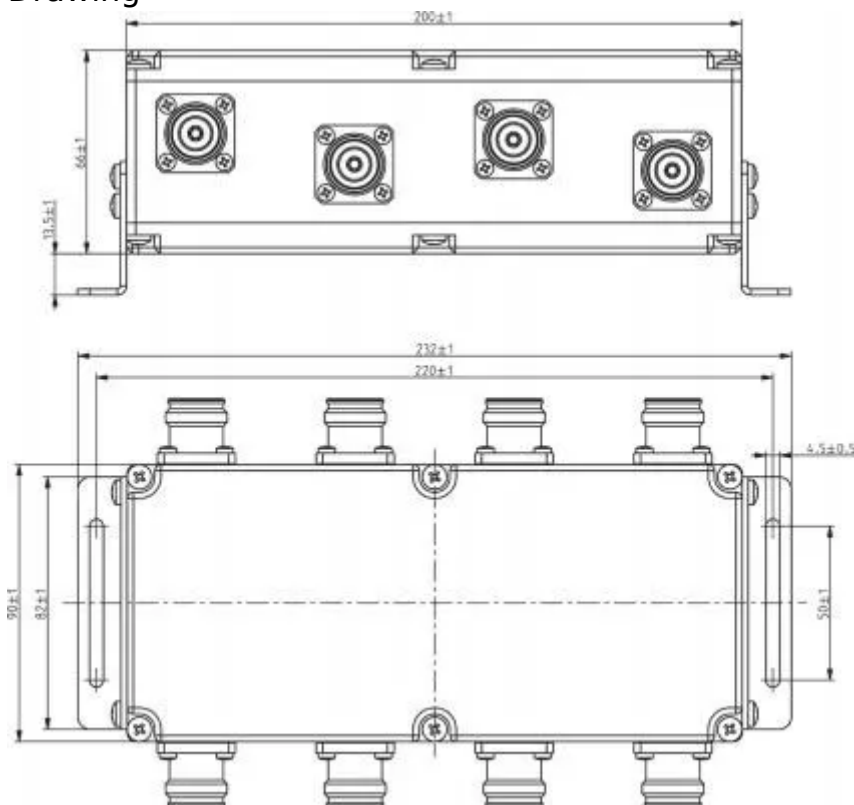
Compliance/Certifications

[ISO 9001 Quality Management](#)

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[RoHS](#)

### Drawing



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