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.

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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
6 dB
Input Impedance
50 Ω
Max. Input Power
200 W
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

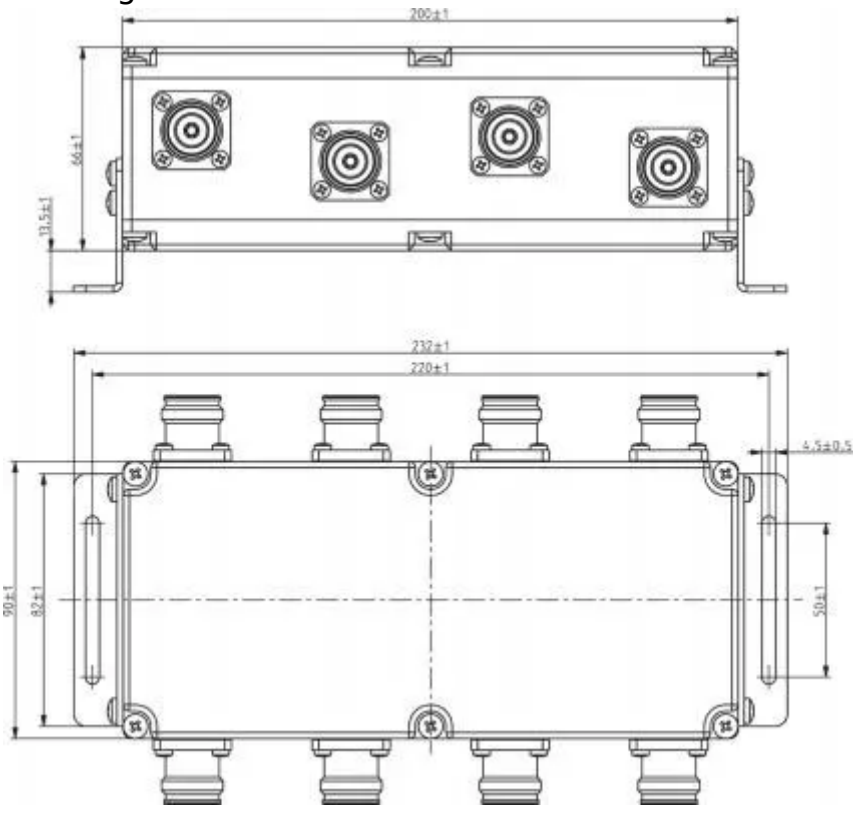
Frequency Test Data

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

Physical Specification

Input Ports
4
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
,
RoHS
Drawing



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