Powertec Wireless Technology
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Powertec 2x2 Hybrid Combiner, 698 to 3800 MHz, 4.3-10 Female, -155 dBc

SKU
IBC-PT-00052
MPN
PCM-HY2-6938.432
Barcode
9337692001895

Description

Hybrid Couplers are used to develop advanced RF transmission systems where interaction-free signal combining is required. 2x2 couplers are typically used as an effective means of combining two radio carriers. The unit has two input ports which feed two coupled output ports.

This 2x2 Hybrid Coupler 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 -155 dBc PIM rating, and using 5G-compatible 4.3-10 connectors.

With an IP67 ingress protection rating the power divider can be used indoors or outdoors. It's integrated mounting bracket provides for wall or surface mounting.

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Powertec's hybrid couplers have been custom developed to support all major 4G LTE bands along with the extended 5G "mid-band", with full n78 3.5 GHz band covered.



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
3 dB
Input Impedance
50 Ω
Max. Input Power
300 W
PIM, 3rd Order
-155 dBc
Port Matrix

Port Label	Port Function	RF Interface
IN1	Input	4.3-10 Female
IN2	Input	4.3-10 Female
OUT1	Coupled	4.3-10 Female
OUT2	Coupled	4.3-10 Female

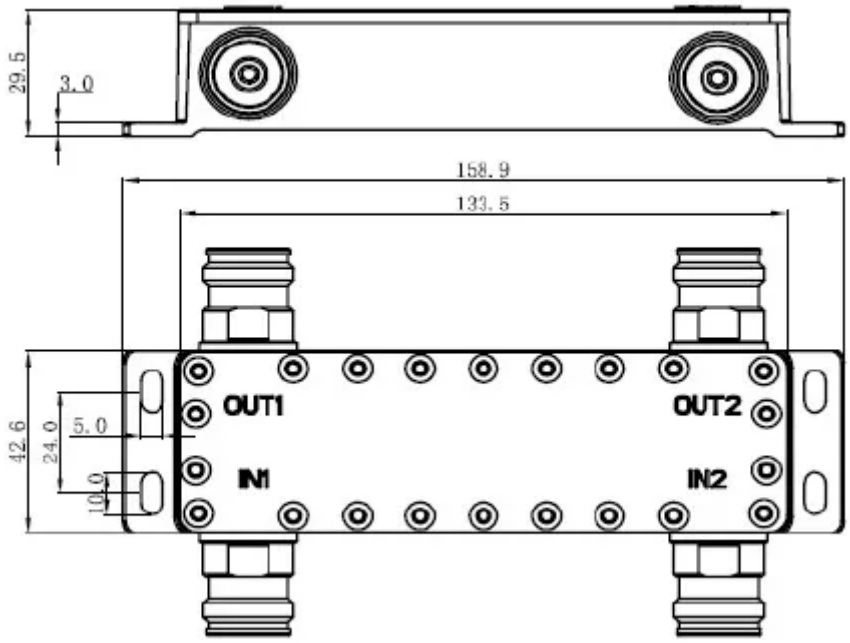
Frequency Test Data

Start Frequency	Stop Frequency	VSWR	Insertion Loss	Inter-Port Iso.
698 MHz	3800 MHz	< 1.25:1	0.2 dB	> 25 dB

Physical Specification

Input Ports
2
Output Ports
2
Subtype
Hybrid Coupler
Ingress Protection
IP67
Dimensions
159 x 102 x 29.5
Weight
0.5 kg

Materials
Aluminium
Mounting
Screw / Bolt
Min. Operating Temperature
-40 °C
Max. Operating Temperature
65 °C
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS
Drawing



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