

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.



RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	Max. Input Power:	300 W
Coupling / Split:	3 dB	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

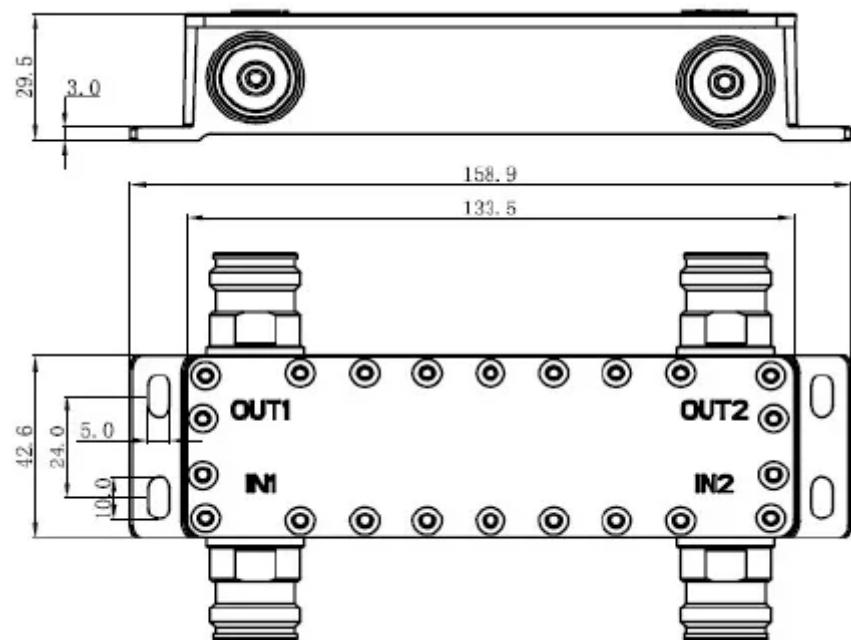
Frequency Test Data

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	Materials:	Aluminium
Output Ports:	2	Mounting:	Screw / Bolt
Subtype:	Hybrid Coupler	Min. Operating Temperature:	-40 °C
Ingress Protection:	IP67	Max. Operating Temperature:	65 °C
Dimensions:	159 x 102 x 29.5	Compliance/Certifications:	ISO 9001 Quality Management
Weight:	0.5 kg	RoHS	,

Drawing



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