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Powertec 3x3 Hybrid Combiner, 698 to 3800 MHz, 4.3-10 Female, -155 dBc

SKU
IBC-PT-00076
MPN
PCM-HY3-6938.432
Barcode
9337692002731

Description

The Powertec 3x3 Hybrid Combiner (SKU: IBC-PT-00076) is a high-performance RF passive component designed for seamless integration in various wireless applications. Operating within a broad frequency range from 698 to 3800 MHz, this combiner ensures optimal signal management with its robust specifications. Measuring 244.4 x 125 x 41 mm, it features a durable construction with an IP67 ingress protection rating, making it suitable for outdoor installations.

Key electrical features include a 3rd Order PIM rating of -155 dBc and a standard input impedance of 50 Ω, ensuring minimal signal distortion and high-quality transmission. The unit boasts a VSWR of less than 1.3:1, a return loss of ≤ 18.00 dB, an insertion loss of 6.00 dB, and inter-port isolation of over 23 dB, providing exceptional performance across its operating frequencies.

Equipped with 4.3-10 Female connectors on both input and output ports, this RoHS-compliant hybrid coupler...

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

Port Function	RF Interface
Input	4.3-10 Female
Output	4.3-10 Female

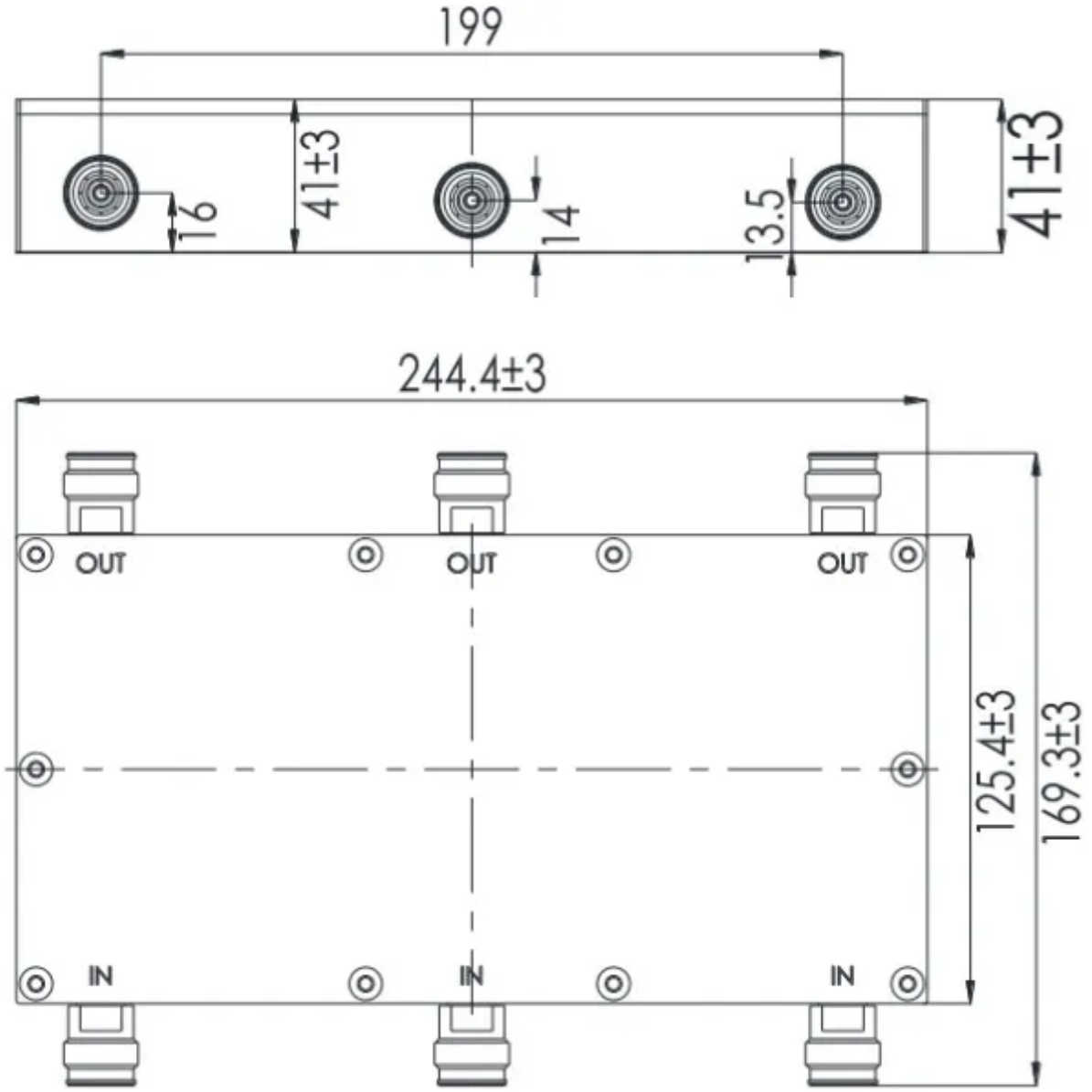
Frequency Test Data

Start Frequency	Stop Frequency	VSWR	Insertion Loss	Inter-Port Iso.	Return Loss

698 MHz	3800 MHz	< 1.3:1	6 dB	> 23 dB	≤ 18 dB

Physical Specification

Input Ports
3
Output Ports
3
Subtype
Hybrid Coupler
Ingress Protection
IP67
Dimensions
244.4 x 125 x 41
Weight
2.3 kg
Min. Operating Temperature
-25 °C
Max. Operating Temperature
70 °C
Compliance/Certifications
RoHS
Drawing



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