

# 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  $\Omega$ , ensuring minimal signal distortion and high-quality transmission. The unit boasts a VSWR of less than 1.3:1, a return loss of  $\leq 18.00$  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

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# RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	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

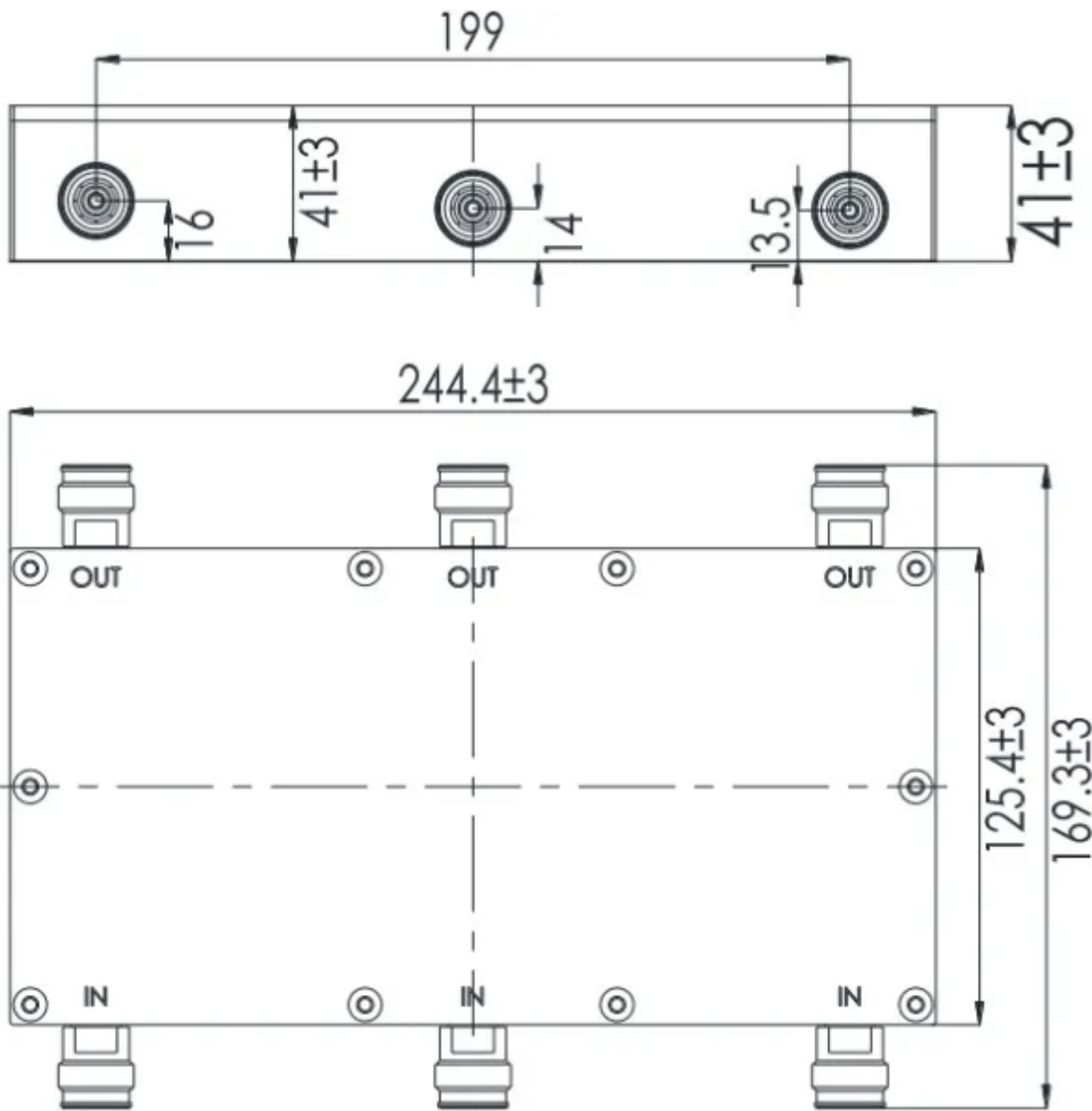
## Frequency Test Data

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

Drawing



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