

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...

[Read More](#)



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

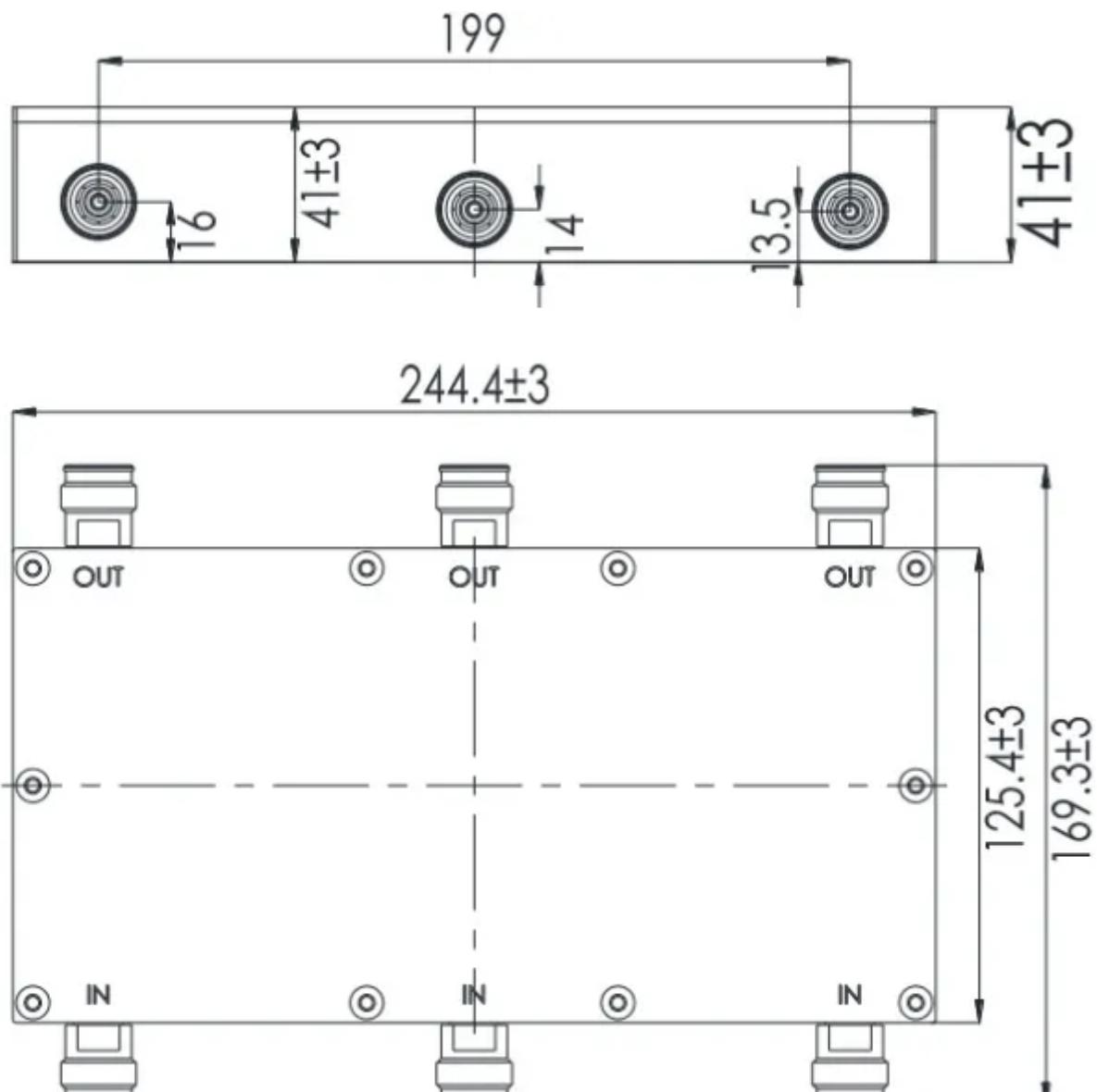
Frequency Test Data

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



Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

