

# Powertec 2x2 Hybrid Combiner, 700-3800MHz, N Female, -155dBC

SKU: IBC-PT-00108

MPN: PCM-HY2-6938.N2

Barcode: 9337692005329

## Description

The Powertec 2x2 Hybrid Combiner (SKU: IBC-PT-00108, Part Number: PCM-HY2-6938.N2) is an advanced RF passive component designed for optimal performance across a frequency range of 698 MHz to 3800 MHz. With a coupling/division value of 3 dB, it ensures efficient signal distribution. This device features N Female connectors for both input and output ports, facilitating easy integration into existing systems.

Certified with an IP65 rating, it is robust and suitable for outdoor applications, capable of operating in temperatures from -25 °C to 75 °C. The Hybrid Combiner boasts a 3rd Order PIM rating of -155 dBC, maintaining high signal integrity. Its electrical performance includes a VSWR of less than 1.3:1, an insertion loss of 1.00 dB, and inter-port isolation greater than 22 dB, making it ideal for demanding wireless infrastructure setups.

Compliant with RoHS standards, this component meets modern environmental regulations. Its compact...

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# RF Specification

Min. Frequency:	698 MHz	Input Impedance:	50
Max. Frequency:	3800 MHz	Max. Input Power:	200 W
Coupling / Split:	3 dB	PIM, 3rd Order:	-155 dBc

## Port Matrix

Port Label	Port Function	RF Interface
IN	Input	N Female
OUT	Output	N Female

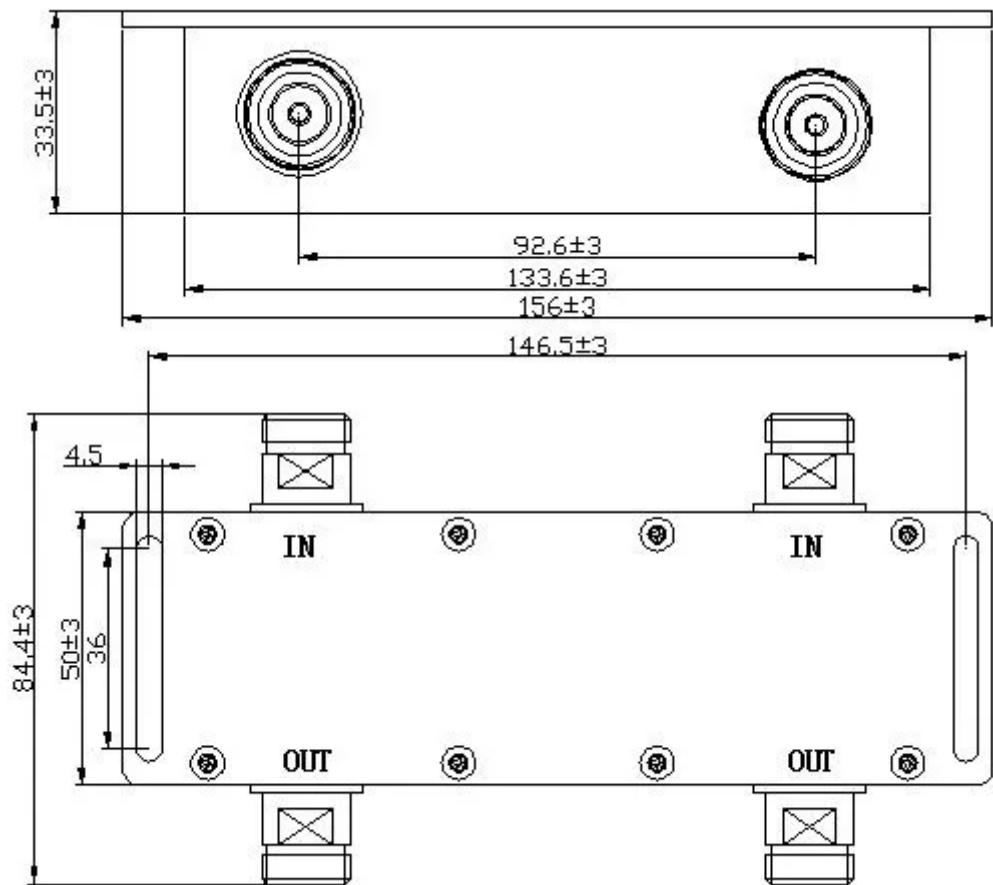
## Frequency Test Data

Start Frequency	Stop Frequency	VSWR	Insertion Loss	Inter-Port Iso.
698 MHz	3800 MHz	< 1.3:1	1 dB	> 22 dB

## Physical Specification

Input Ports:	2	Min. Operating Temperature:	-25 °C
Output Ports:	2	Max. Operating Temperature:	75 °C
Subtype:	Hybrid Coupler	Compliance/Certifications:	RoHS
Ingress Protection:	IP65		
Dimensions:	146.5 x 84.4 x 36		
Weight:	0.56 kg		

## Drawing



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