

# 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 |

**Powertec**  
 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 ...

## Port Matrix

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

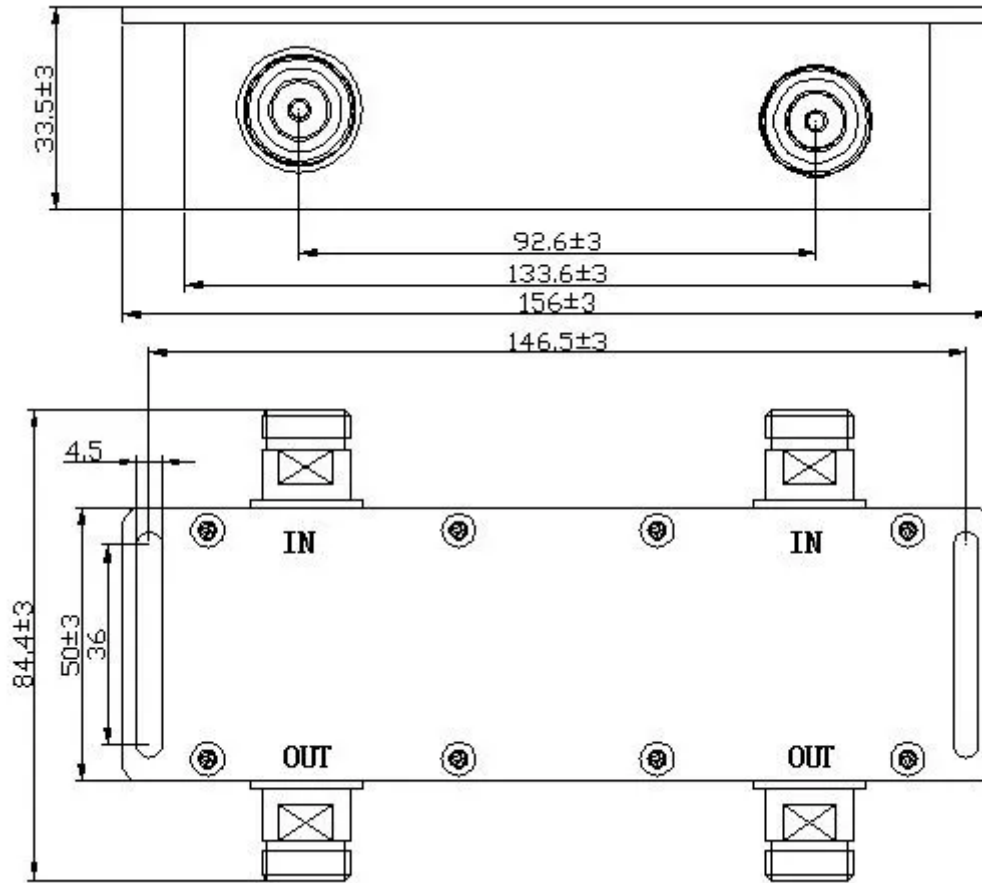
## Frequency Test Data

| 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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