

Powertec 4x4 Hybrid Combiner, 700-3800MHz, N Female

SKU: ACC-BH-00033
 MPN: PCM-HY4-7038-N2
 Barcode: 9337692004438

Description

The Powertec 4x4 Hybrid Combiner (SKU: ACC-BH-00033) is a high-quality RF passive component designed for optimal performance across a frequency range of 698 MHz to 3800 MHz. This hybrid coupler offers a coupling value of 6.1 dB and features N Female connectors on both input and output ports for seamless integration into existing systems. It boasts a VSWR of less than 1.3:1 and inter-port isolation exceeding 23 dB, ensuring minimal signal reflection and interference.

Engineered for durability, the combiner holds an IP65 ingress protection rating, making it suitable for outdoor environments. It operates reliably within temperatures ranging from -25 °C to 75 °C, accommodating various installation conditions. With a 3rd order PIM rating of -160 dBc and an impedance of 50 Ω, it ensures exceptional signal integrity and performance stability.

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RF Specification

| | | | |
|-------------------|----------|-------------------|----------|
| Min. Frequency: | 698 MHz | Input Impedance: | 50 |
| Max. Frequency: | 3800 MHz | Max. Input Power: | 200 W |
| Coupling / Split: | 6.1 dB | PIM, 3rd Order: | -160 dBc |

Port Matrix

| Port Function | RF Interface |
|---------------|--------------|
| Input | N Female |
| Output | N Female |

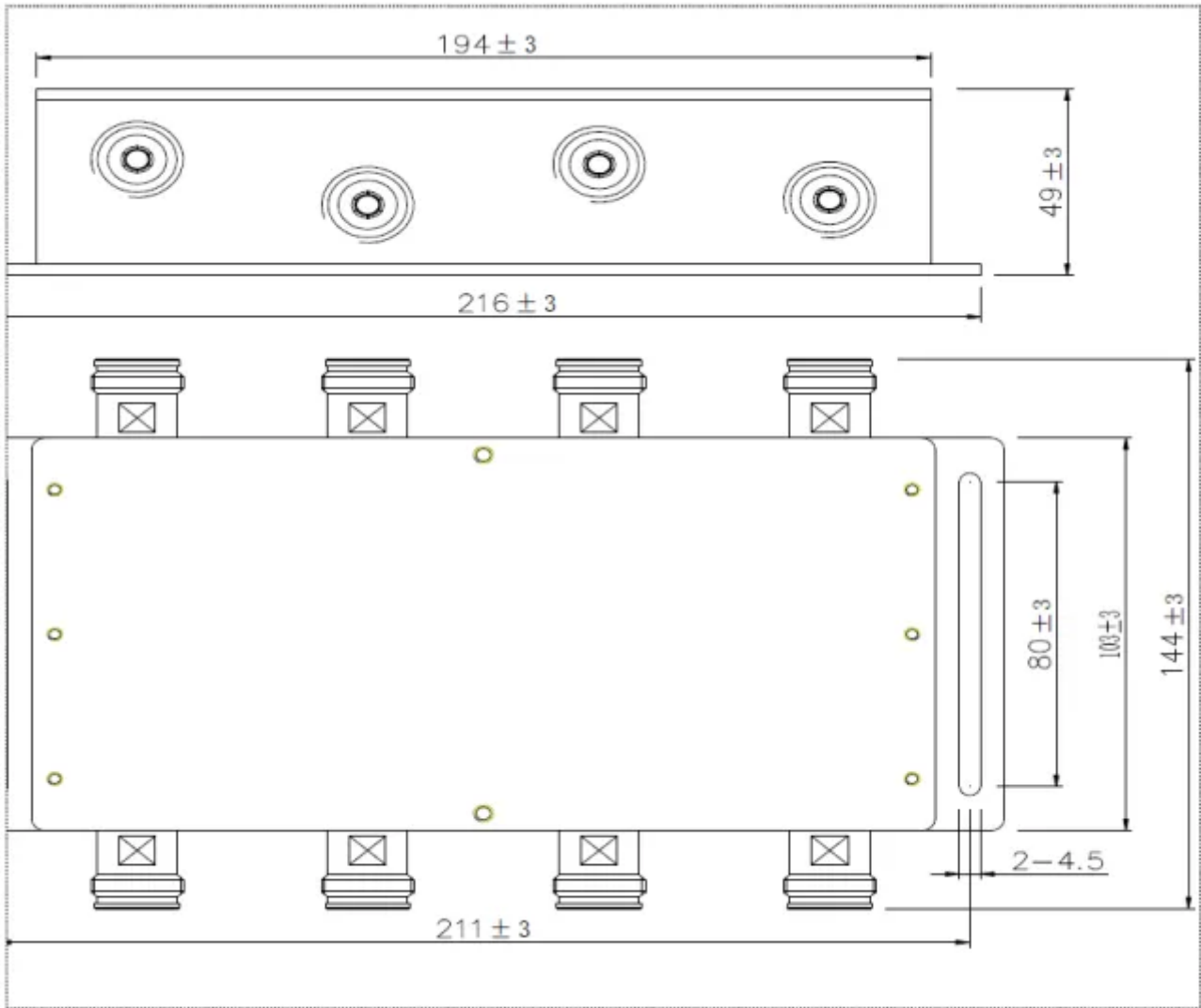
Frequency Test Data

| Start Frequency | Stop Frequency | VSWR | Inter-Port Iso. |
|-----------------|----------------|----------|-----------------|
| 698 MHz | 3800 MHz | < 1.25:1 | > 23 dB |

Physical Specification

| | | | |
|---------------------|----------------|-----------------------------|--------|
| Input Ports: | 4 | Min. Operating Temperature: | -25 °C |
| Output Ports: | 4 | Max. Operating Temperature: | 75 °C |
| Subtype: | Hybrid Coupler | | |
| Ingress Protection: | IP65 | | |
| Dimensions: | 216x194x49 | | |
| Weight: | 1.3 kg | | |

Drawing



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