

**2 Way High Power Broadband Combiner SMA Connectors From 800 MHz to 4.2 GHz Rated at 200 Watts**

MPP8004K2200-2 is a 2 way High Power Broadband RF Combiner with a max input power at 200 watts operating from 800 to 4200 MHz with, 50 ohm SMA input connectors and N output connector. The MPP8004K2200-2 has greater than 10 dB typical isolation, less than 1.0 dB typical low insertion loss and a MAX VSWR of 1.30:1; along with a phase balance of  $\pm 5$  degrees and an amplitude balance of  $\pm 0.25$  dB. The RF Combiner operates in a temperature range from  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ , with a foot print of 5.2"x3"x1.15".



**Configuration**

Input Connectors	SMA Female
Output Connector	N Female
Frequency Range	0.8 to 4.2 GHz
Design	Reactive
Number of Input Ports	2
Housing Material and Plating	Aluminum Alloy

**Features:**

- 800 to 4200 MHz Frequency
- 200 watt max power
- Insertion Loss: < 1.0 dB
- Phase Balance:  $\pm 5$  degrees
- Amplitude Balance:  $\pm 0.25$  dB
- Isolation: >10 dB
- High Power Handling Capability

**Electrical Specifications\***

Description	Min	Typ	Max	Units
Frequency Range	0.8		4.2	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Input Power			200	Watts
Input VSWR			1.3:1	
Isolation	10			dB
Phase Balance		$\pm 5$		Degrees
Flatness		$\pm 0.25$		dB

\* Values at 25°C, sea level

**Mechanical Specifications**

**Temperature**

Operating Range -55 to +85 deg C

**Size**

Length 5.2 in [132.08 mm]  
 Width 3 in [76.2 mm]  
 Height 1.15 in [29.21 mm]

**Connectors**

Description	Input Connector	Output Connector
Connector Material	Passivated Stainless Steel	Brass, Nickel

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes

**Plotted and Other Data**

Notes:

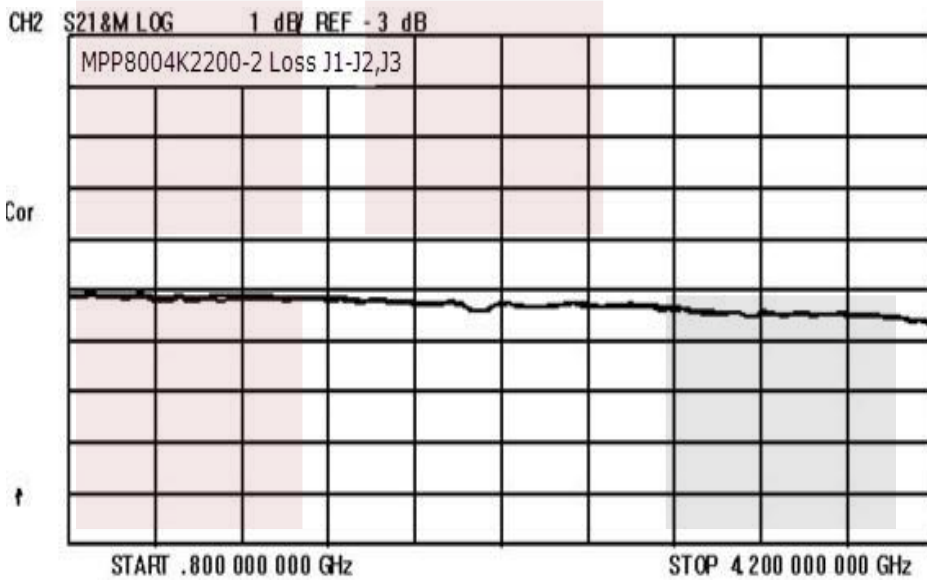
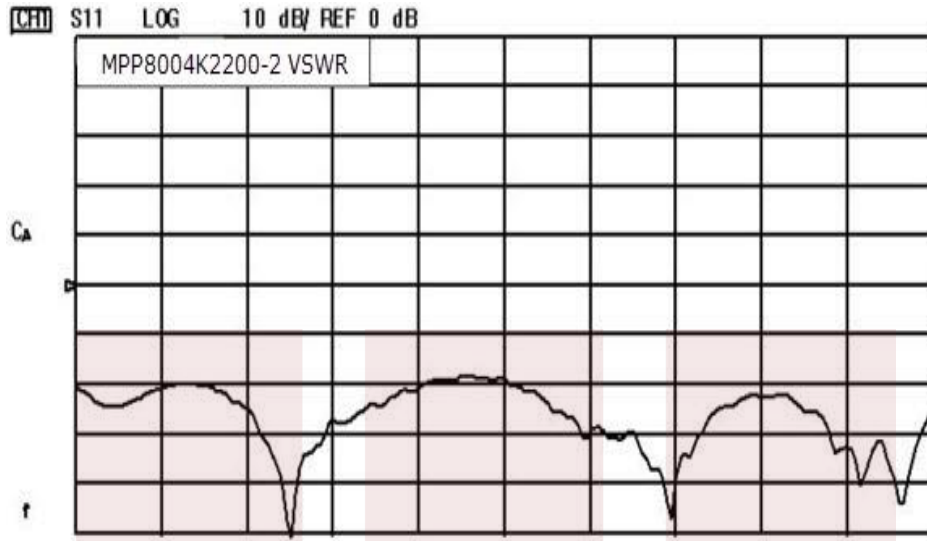
- Values at 25 °C, sea level

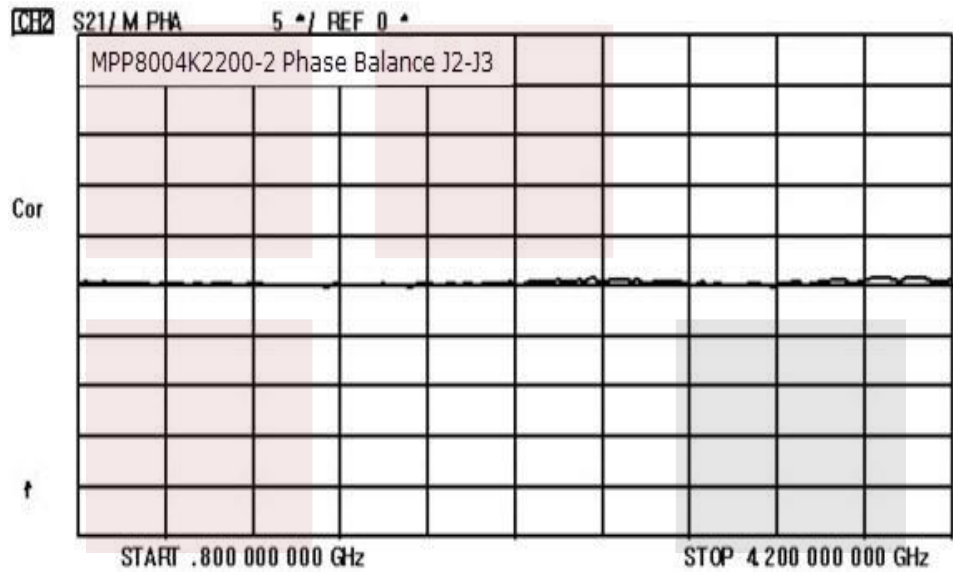
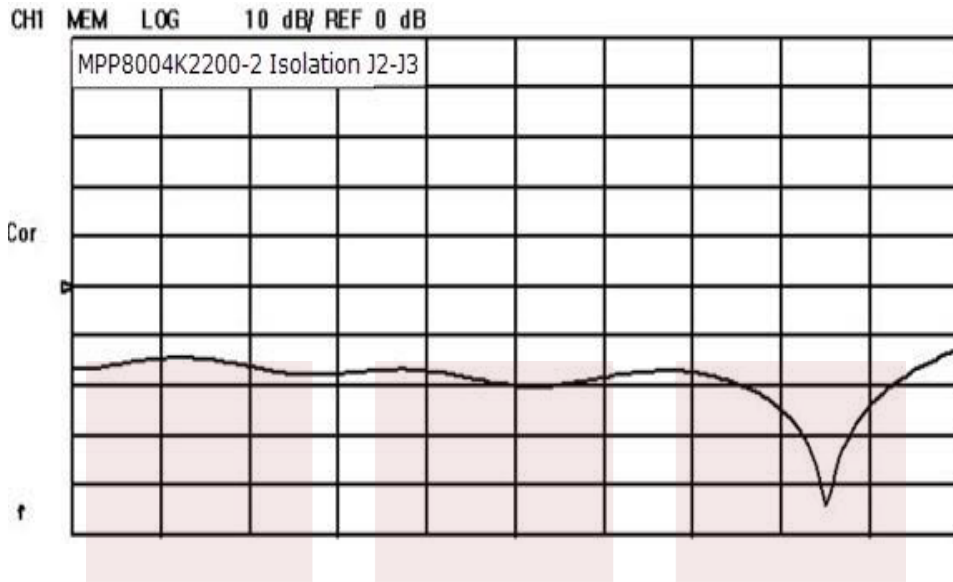
**Applications:**

- Communications Systems
- Power Combining
- PCS,GSM,LTE, Cellular
- UMTS
- Amplifier Systems
- Amplifier Power Combining
- Wireless Infrastructures
- Defence Applications

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**Typical Performance Data**





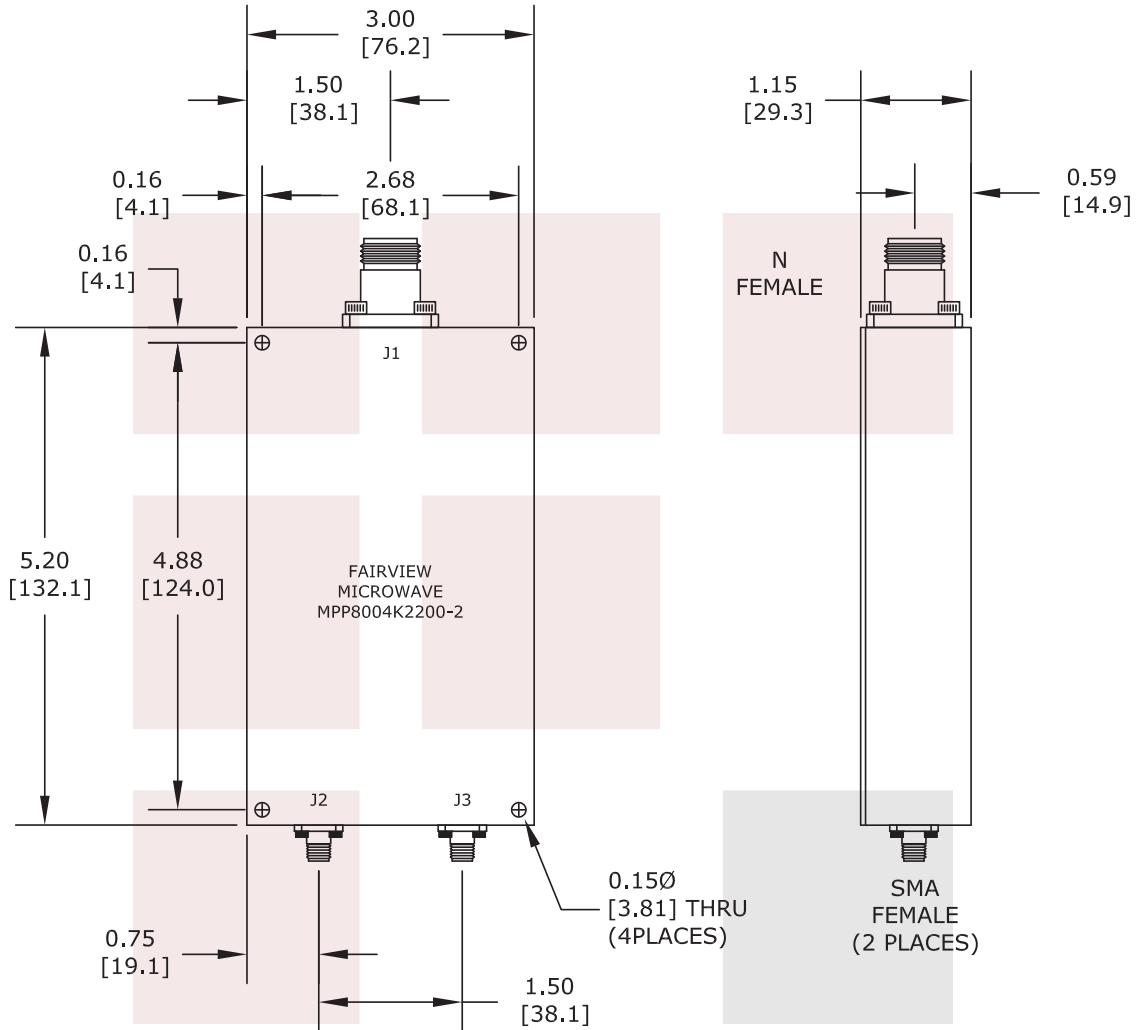
2 Way High Power Broadband Combiner SMA Connectors From 800 MHz to 4.2 GHz Rated at 200 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way High Power Broadband Combiner SMA Connectors From 800 MHz to 4.2 GHz Rated at 200 Watts MPP8004K2200-2](#)

URL: <http://www.fairviewmicrowave.com/2-way-power-combiner-sma-broadband-4.2-ghz-200-watts-mpp8004k2200-2-p.aspx>

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TITLE 2 Way High Power Broadband Combiner SMA Connectors From 800 MHz to 4.2 GHz Rated at 200 Watts		DWG NO MPP8004K2200-2		CAGE CODE 3FKR5	
CAD FILE	091914	SHEET	SCALE	N/A	SIZE A 2233