

## 2 Way Broadband Combiner SMA Interface from 500 MHz to 2.5 GHz

MPP5002K5200-2 is a 2 way High Power Broadband RF Combiner with max power at 200 watts operating from 500 to 2500 MHz with, 50 ohm SMA input connectors and N output connector. The MPP5002K5200-2 has greater than 13 dB typical isolation, less than 0.40 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  $\pm 0.2$  dB. The RF Combiner operates in a temperature range from  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ , with a foot print of 4.70"x2"x1.10".

### Electrical Specifications

Description	Min	Typ	Max	Units
Design			Reactive	
Number of Input Ports			2	
Frequency Range	0.5		2.5	GHz
Impedance		50		Ohms
Output VSWR			1.3:1	
Insertion Loss			0.4	dB
Isolation	13			dB
Amplitude Balance		$\pm 0.2$		dB
Phase Balance		$\pm 5$		Degrees
Power Handling (CW)			200	Watts
**See Electrical Notes				

Electrical Specification Notes:  
The device is intended for coherent signal combining.

### Mechanical Specifications

<b>Size</b>	
Length	4.7 in [119.38 mm]
Width	2 in [50.8 mm]
Height	1.1 in [27.94 mm]
Weight	0.7231 lbs [327.99 g]
Housing Material and Plating	Aluminum Alloy
<b>Configuration</b>	
Input Connector	SMA Female
Output Connectors	N Female

### Environmental Specifications

<b>Temperature</b>	
Operating Range	$-55$ to $+85$ deg C

### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

Notes:



### Features:

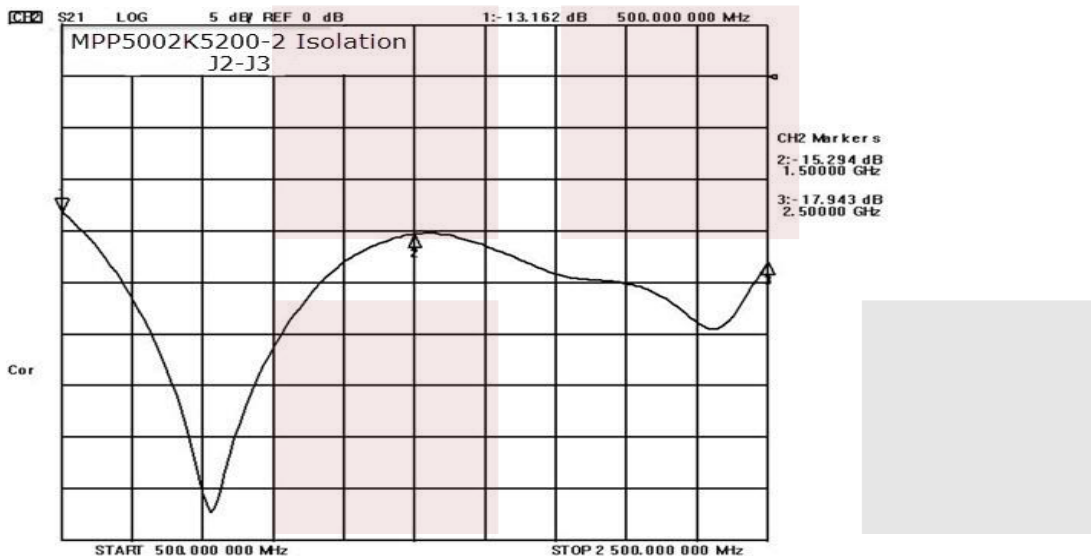
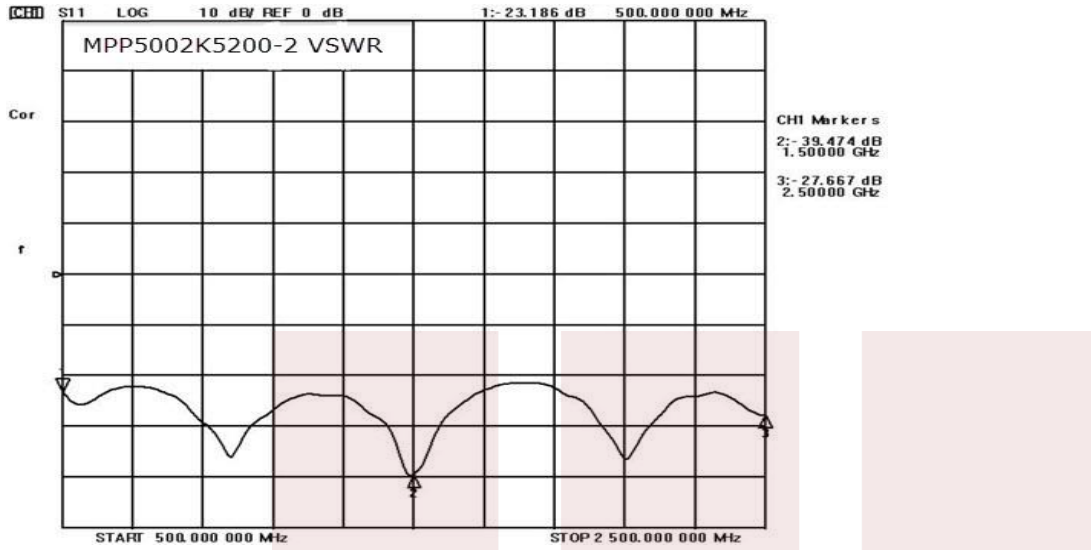
- 500 to 2500 MHz Frequency
- 200 watt max power
- Insertion Loss:  $< 0.4$  dB
- Phase Balance:  $\pm 5$  degrees
- Amplitude Balance:  $\pm 0.2$  dB
- Isolation:  $> 13$  dB
- High Power Handling Capability

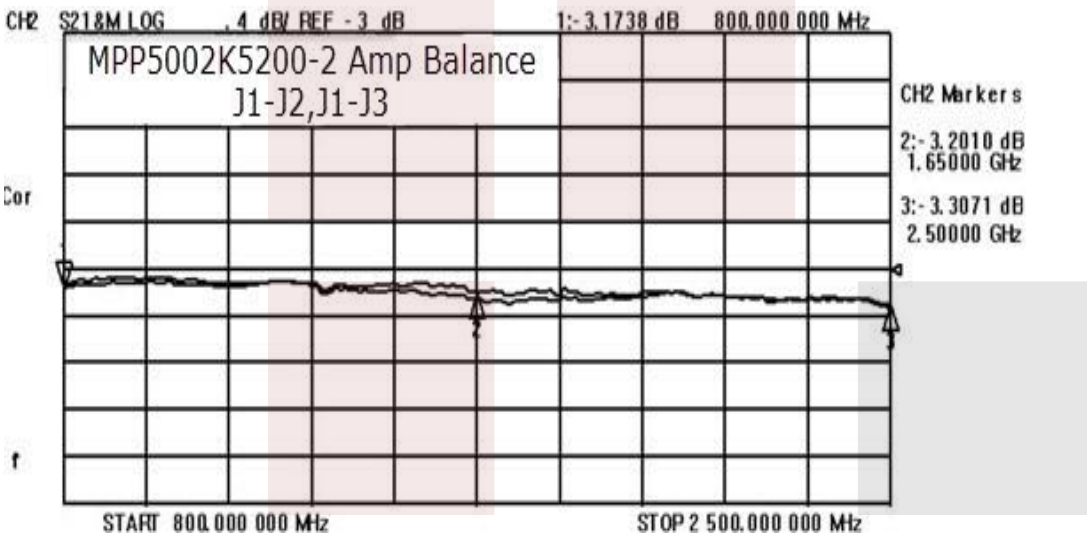
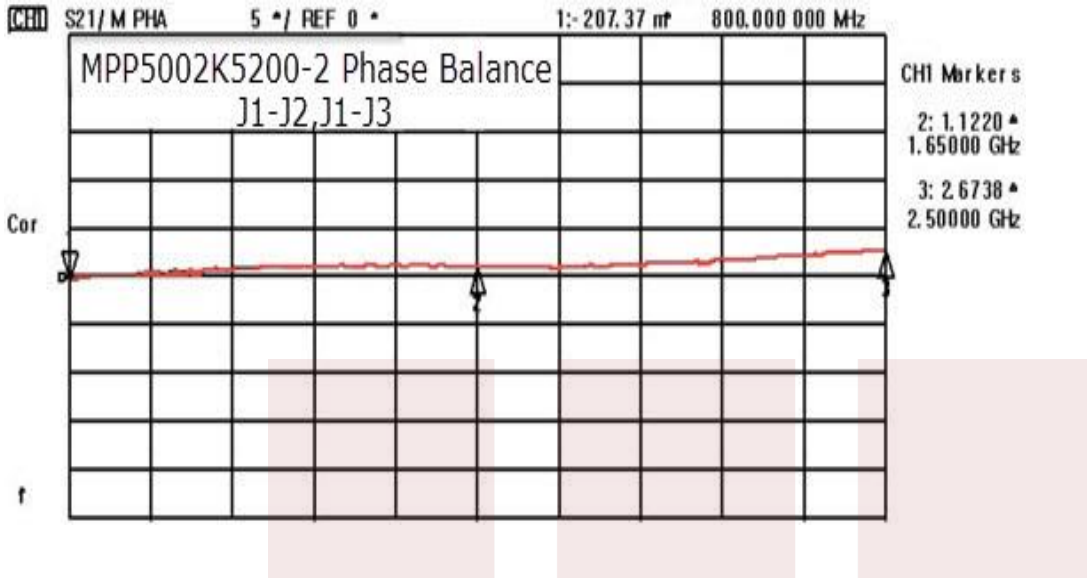
### Applications:

- 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**





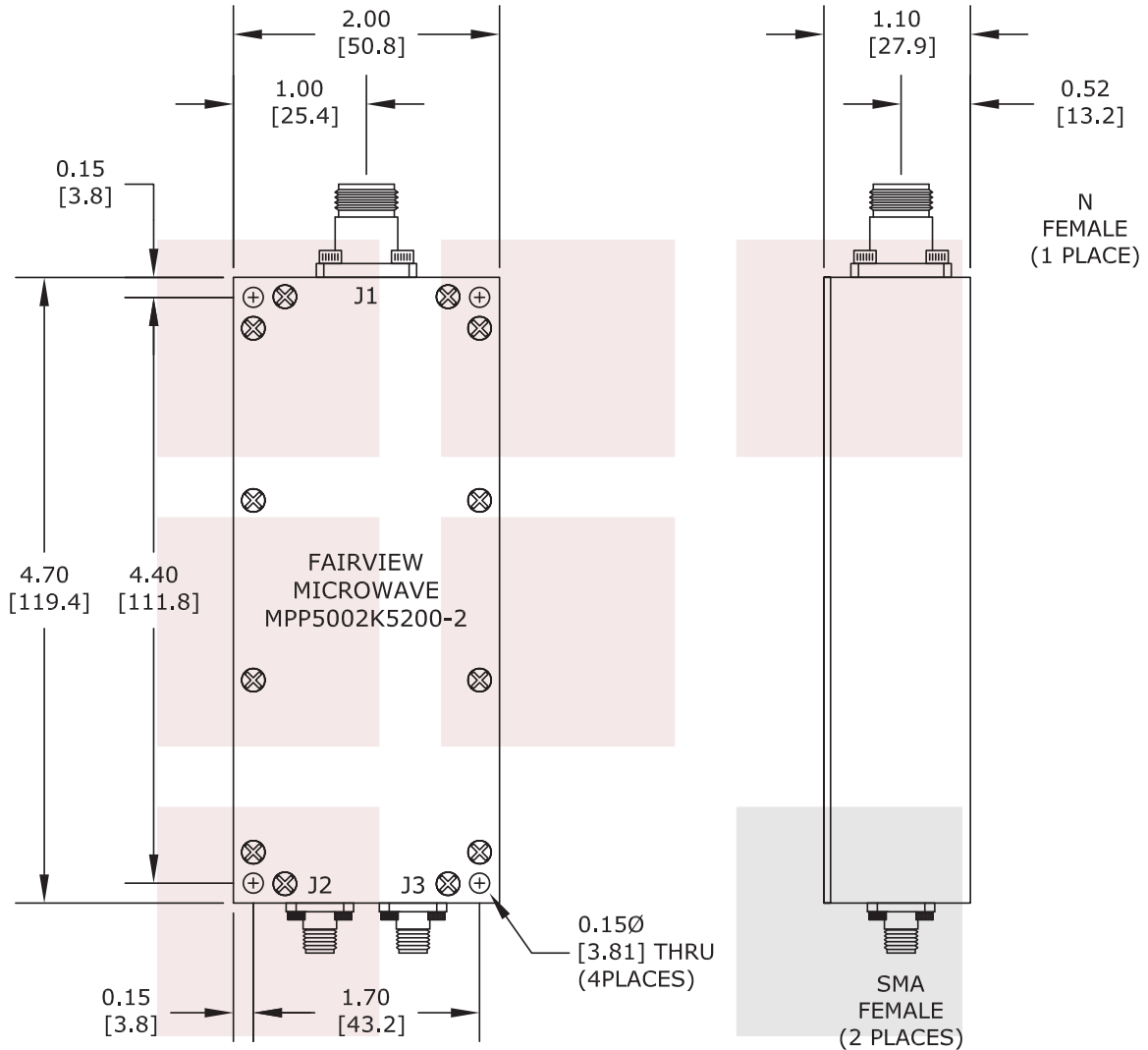
2 Way Broadband Combiner SMA Interface from 500 MHz to 2.5 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way Broadband Combiner SMA Interface from 500 MHz to 2.5 GHz MPP5002K5200-2](#)

URL: <https://www.fairviewmicrowave.com/2-way-power-combiner-sma-broadband-2.5-ghz-200-watts-mpp5002k5200-2-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





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TITLE 2 Way Broadband Combiner SMA Interface from 500 MHz to 2.5 GHz		DWG NO MPP5002K5200-2		CAGE CODE 3FKR5	
CAD FILE	090814	SHEET	SCALE	N/A	SIZE A 2233