

2 Way High Power Broadband Combiner SMA Connectors From 2 GHz to 6 GHz Rated at 100 Watts

MPP2K06K0100-2 is a 2 way High Power Broadband RF Combiner with a max input power at 100 watts operating from 2000 to 6000 MHz with 50 ohm SMA connectors. The MPP2K06K0100-2 has greater than 12 dB typical isolation, less than 0.35 dB typical low insertion loss and a MAX VSWR of 1.30:1; along with a phase balance of ± 5 degrees and an amplitude balance of ± 0.25 dB. The RF Combiner operates in a temperature range from -55°C to $+85^{\circ}\text{C}$, with a foot print of 1.40"x2"x0.73".

Configuration

Input Connectors	SMA Female
Output Connector	SMA Female
Frequency Range	2 to 6 GHz
Design	Reactive
Number of Input Ports	2
Housing Material and Plating	Aluminum Alloy

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	2		6	GHz
Impedance		50		Ohms
Insertion Loss			0.35	dB
Input Power			100	Watts
Input VSWR			1.3:1	
Isolation	12			dB
Phase Balance		± 5		Degrees
Flatness		± 0.25		dB

* Values at 25°C, sea level

Mechanical Specifications

Temperature

Operating Range -55 to +85 deg C

Size

Length 2 in [50.8 mm]
Width 1.4 in [35.56 mm]
Height 0.73 in [18.54 mm]

Connectors

Description	Input Connector	Output Connector
Connector Material	Passivated Stainless Steel	Passivated Stainless Steel

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

Plotted and Other Data

Notes:

- Values at 25 °C, sea level



Features:

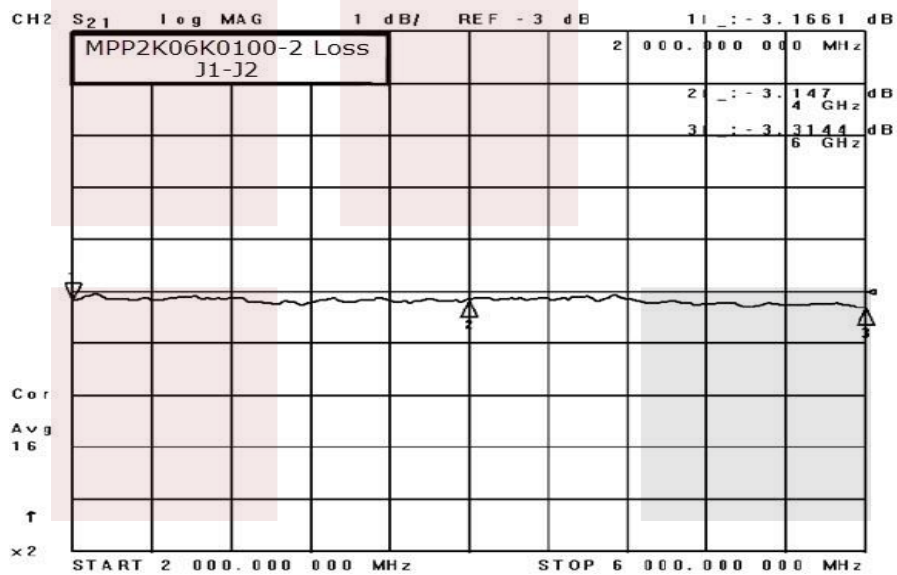
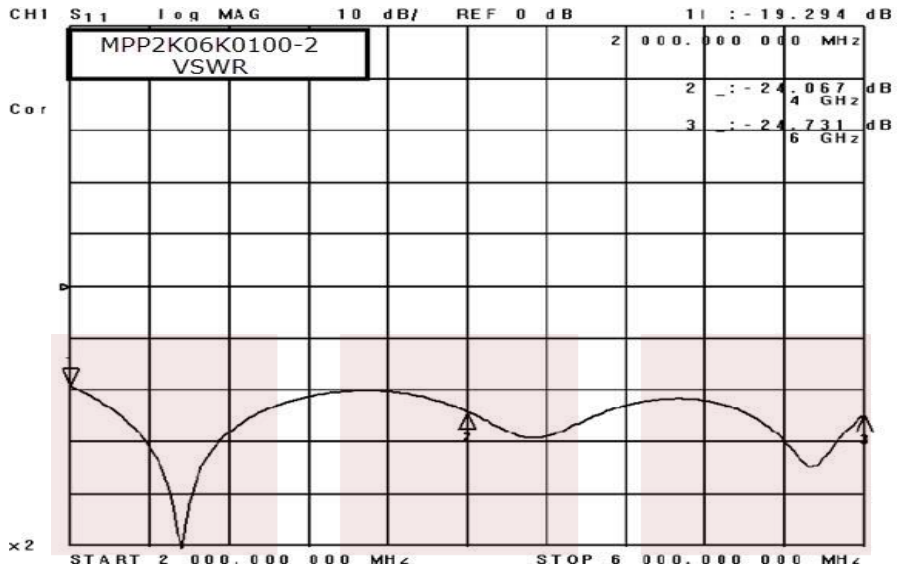
- 2000 to 6000 MHz Frequency
- 100 watt max power
- Insertion Loss: < 0.35 dB
- Phase Balance: ± 5 degrees
- Amplitude Balance: ± 0.25 dB
- Isolation: >12 dB
- High Power Handling Capability

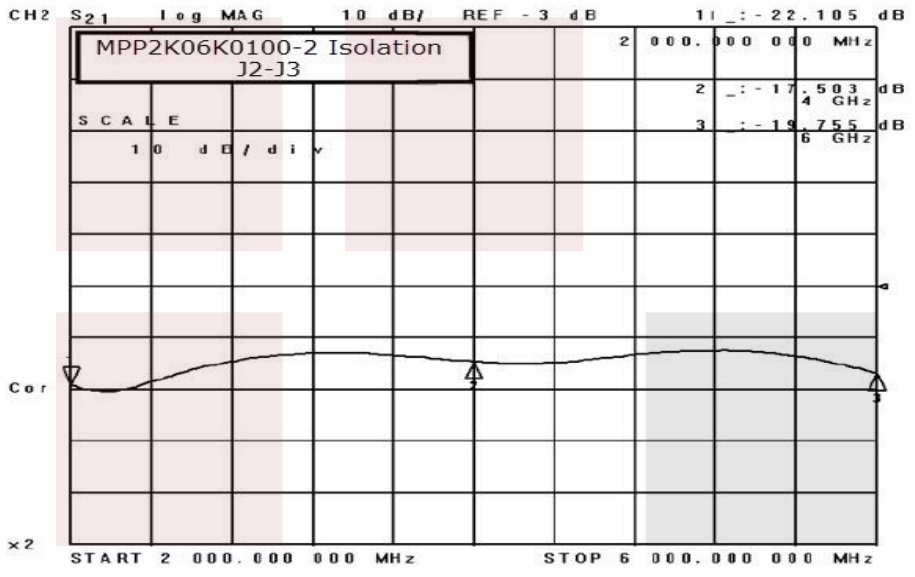
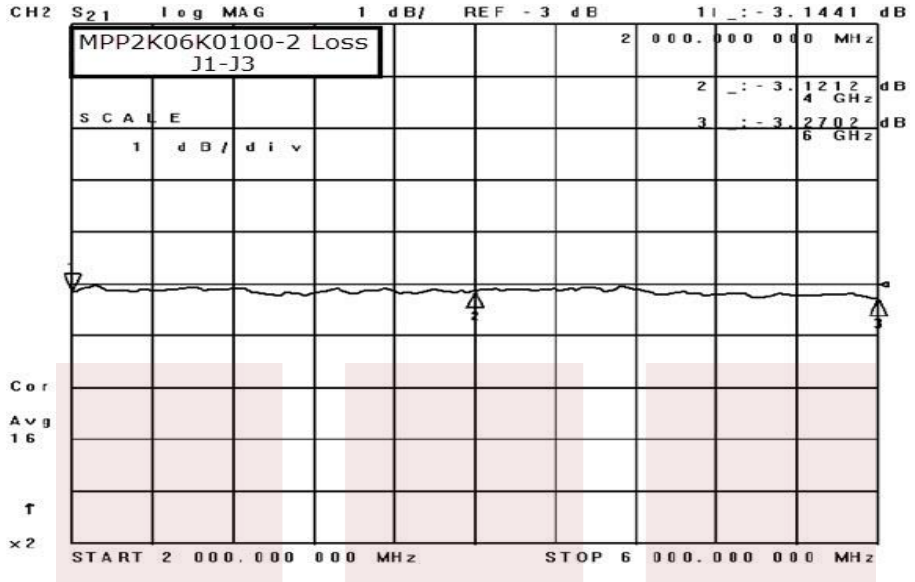
Applications:

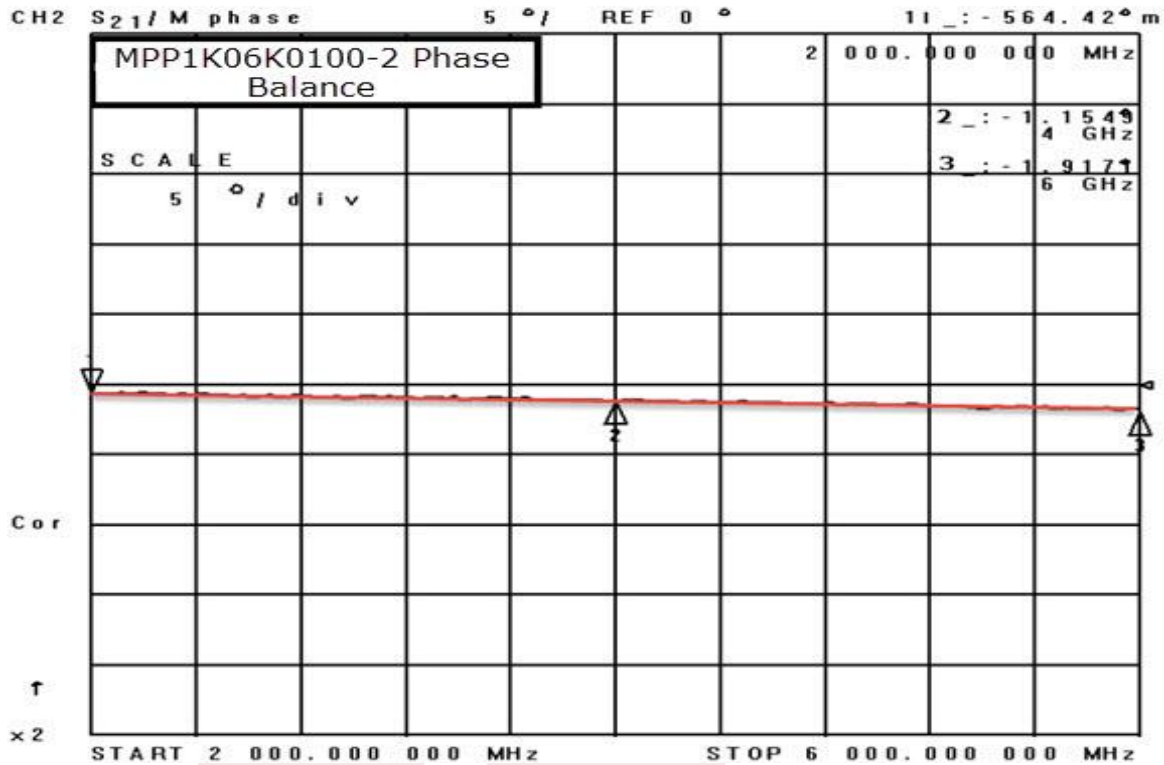
- Communications Systems
- Power Combining
- PCS,GSM,LTE, Cellular
- UMTS
- Amplifier Systems
- Amplifier Power Combining
- Wireless Infrastructures
- Defence Applications

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Typical Performance Data





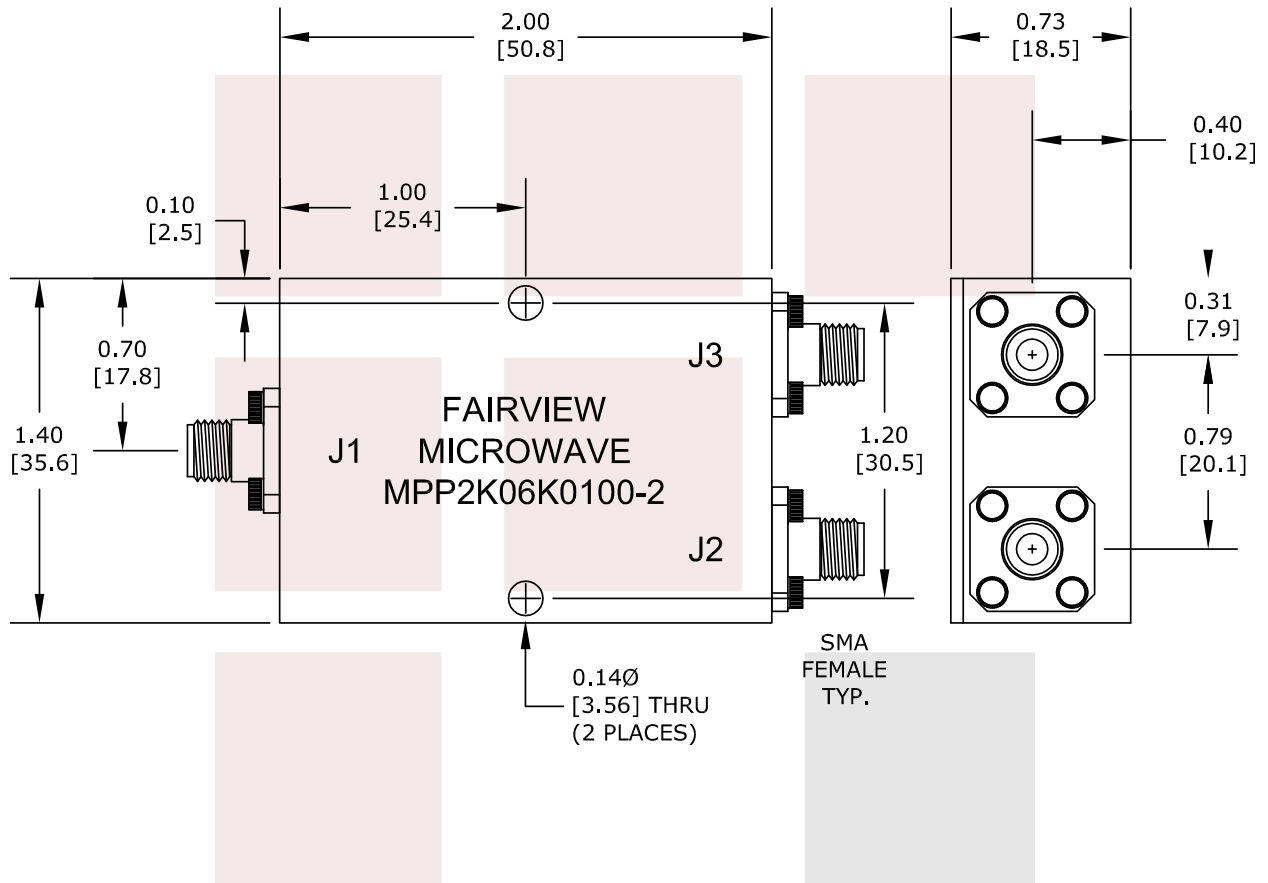


2 Way High Power Broadband Combiner SMA Connectors From 2 GHz to 6 GHz Rated at 100 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way High Power Broadband Combiner SMA Connectors From 2 GHz to 6 GHz Rated at 100 Watts MPP2K06K0100-2](#)

URL: <http://www.fairviewmicrowave.com/2-way-power-combiner-sma-broadband-6-ghz-100-watts-mpp2k06k0100-2-p.aspx>

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TITLE 2 Way High Power Broadband Combiner SMA Connectors From 2 GHz to 6 GHz Rated at 100 Watts		DWG NO MPP2K06K0100-2		CAGE CODE 3FKR5	
CAD FILE 091914 SHEET		SCALE N/A		SIZE A 2233	