

4 Way Broadband Combiner SMA Interface from 1 GHz to 6 GHz

MPP1K06K0100-4 is a 4 way High Power Broadband RF Combiner with max power at 100 watts operating from 1000 to 6000 MHz with 50 ohm SMA connectors. The MPP1K06K0100-4 has greater than 6 dB typical isolation, less than 0.85 dB typical low insertion loss and a MAX VSWR of 1.50:1; along with a phase balance of ± 5 degrees and an amplitude balance of ± 0.30 dB. The RF Combiner operates in a temperature range from -55°C to +85°C, with a foot print of 5.2"x3.90"x1.17".

Electrical Specifications

Design			Reactive	
Number of Input Ports			4	
Description	Min	Typ	Max	Units
Frequency Range	1		6	GHz
Impedance		50		Ohms
Output VSWR			1.5:1	
Insertion Loss			0.85	dB
Isolation	6			dB
Amplitude Balance		± 0.3		dB
Phase Balance		± 6		Degrees
Power Handling (CW)			100	Watts
**See Electrical Notes				

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

Mechanical Specifications

Size	
Length	5.2 in [132.08 mm]
Width	3.9 in [99.06 mm]
Height	1.17 in [29.72 mm]
Weight	1.4628 lbs [663.51 g]
Housing Material and Plating	Aluminum Alloy
Configuration	
Input Connector	SMA Female
Output Connectors	SMA Female

Environmental Specifications

Temperature	
Operating Range	-55 to +85 deg C

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

Plotted and Other Data

Notes:



Features:

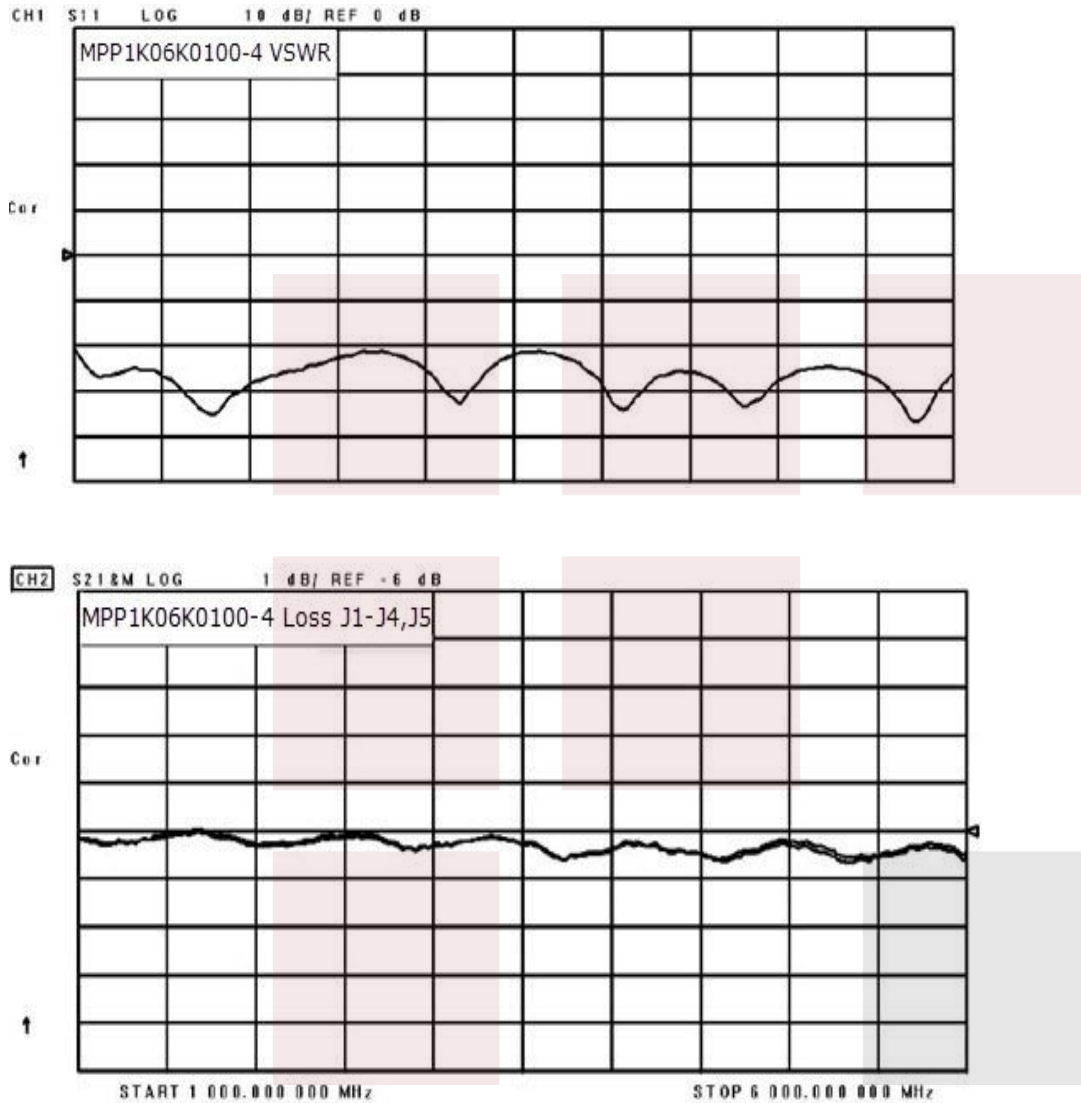
- 1000 to 6000 MHz Frequency
- 100 watt max power
- Insertion Loss: < 0.85 dB
- Phase Balance: ± 6 degrees
- Amplitude Balance: ± 0.30 dB
- Isolation: >6 dB
- High Power Handling Capability

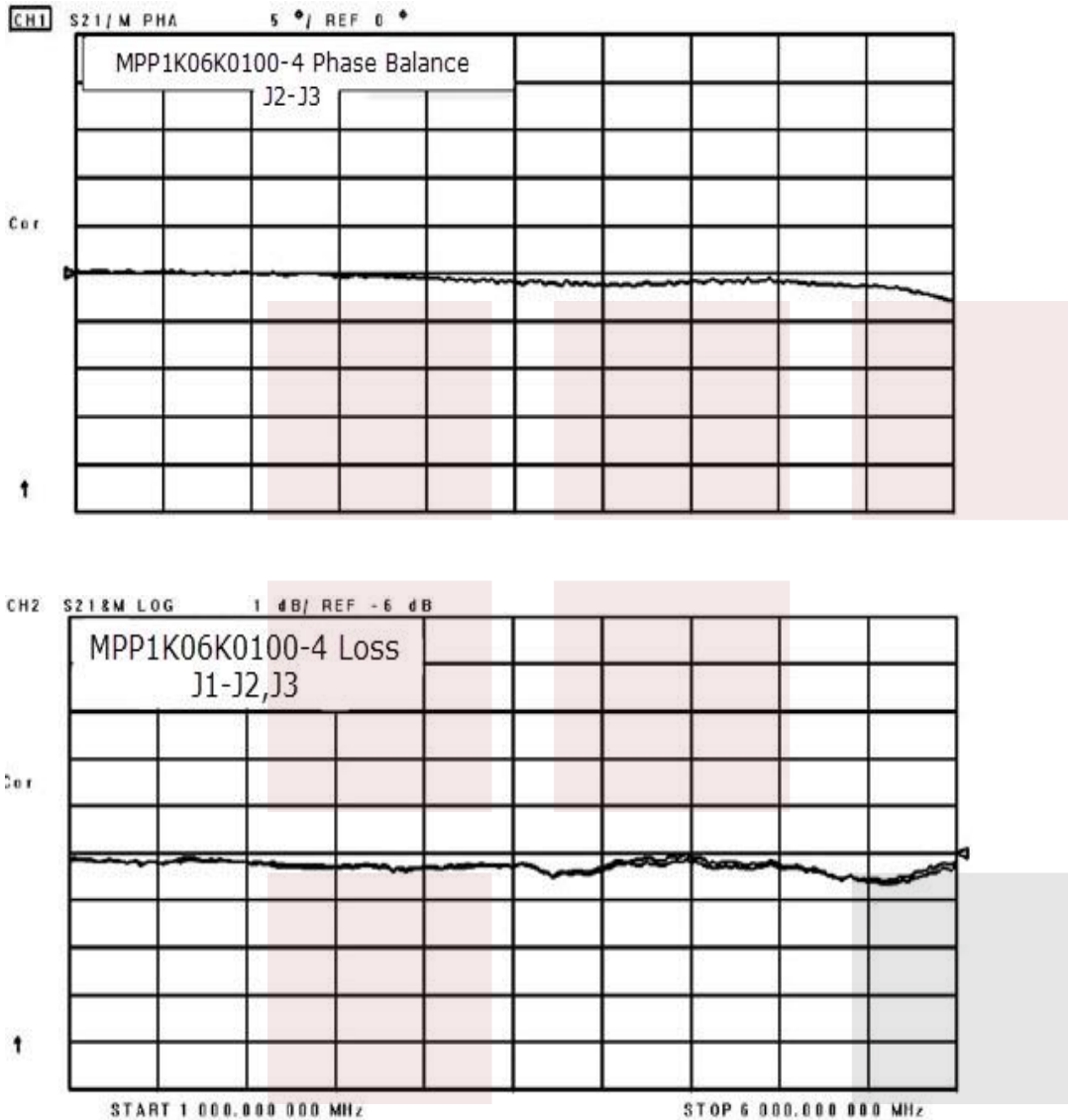
Applications:

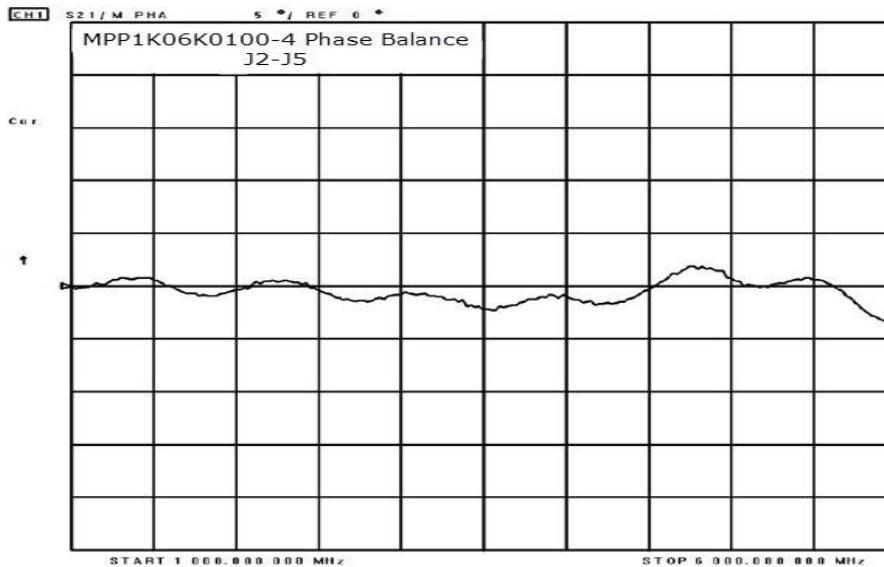
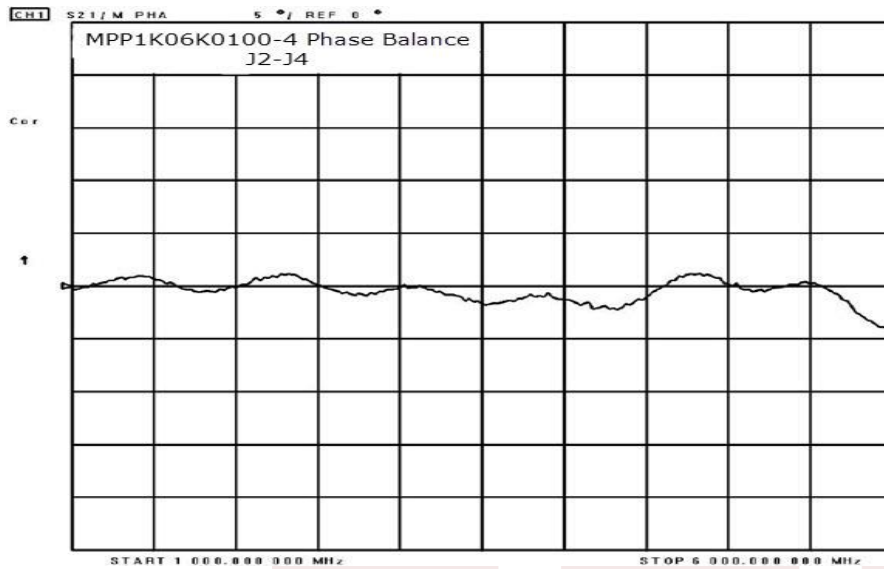
- Communications Systems
- Power Combining
- PCS,GSM,LTE, Cellular
- UMTS
- Amplifier Systems
- Amplifier Power Combining
- Wireless Infrastructures
- Defence Applications

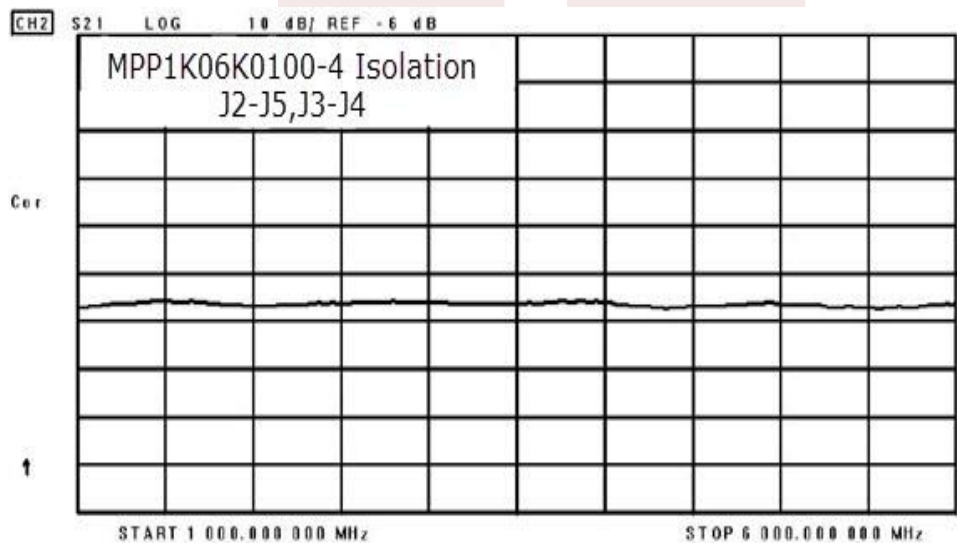
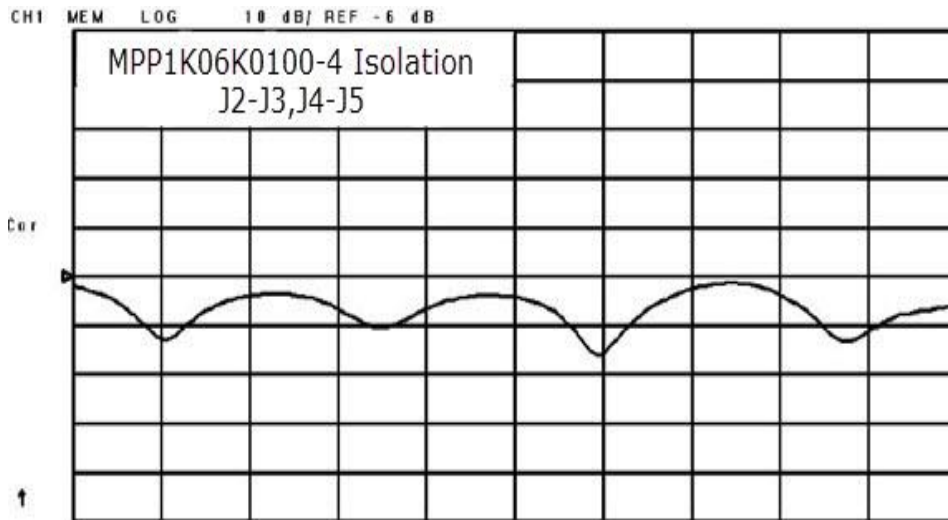
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Typical Performance Data









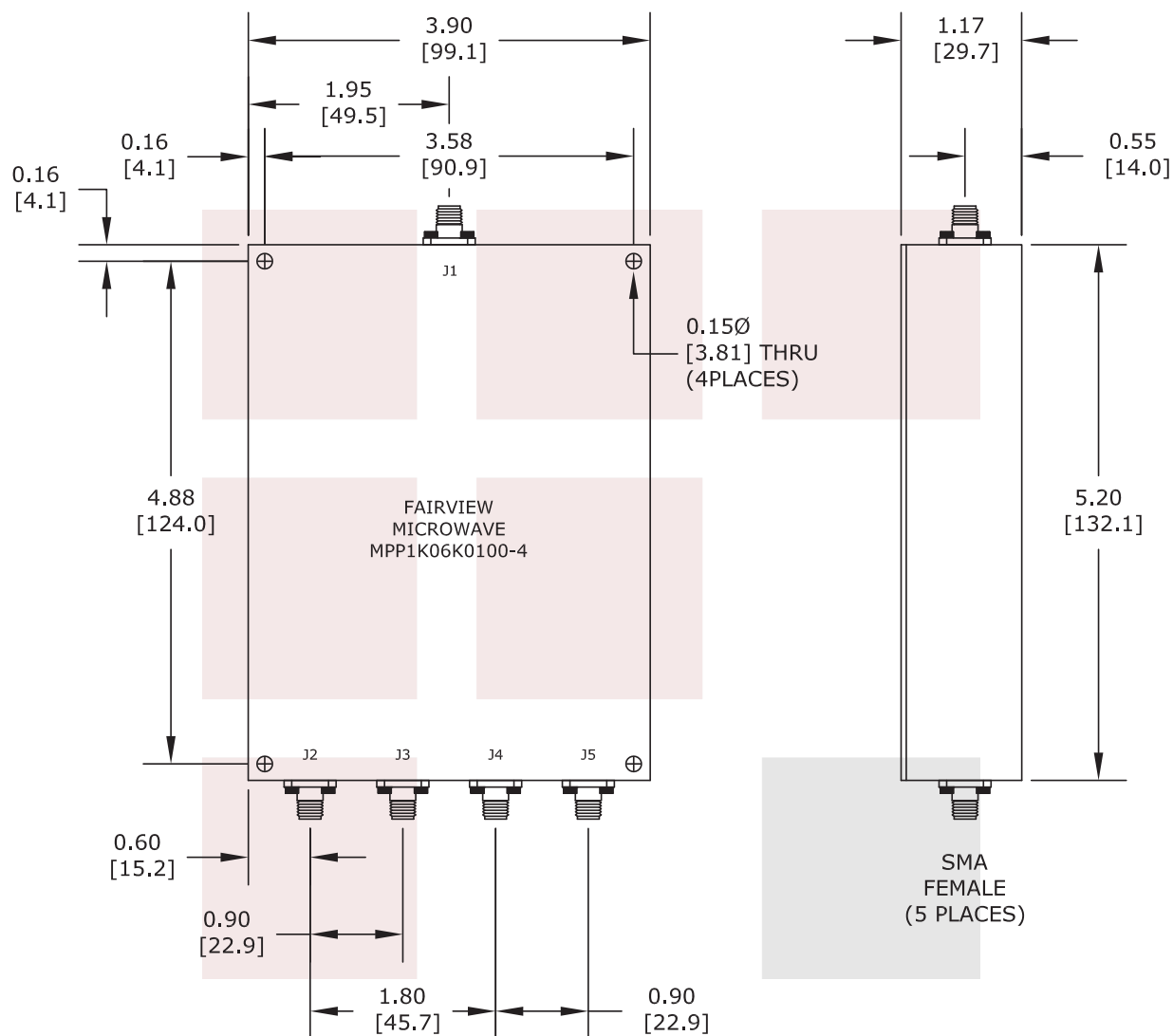
4 Way Broadband Combiner SMA Interface from 1 GHz to 6 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [4 Way Broadband Combiner SMA Interface from 1 GHz to 6 GHz MPP1K06K0100-4](#)

URL: <https://www.fairviewmicrowave.com/4-way-power-combiner-sma-broadband-6-ghz-100-watts-mpp1k06k0100-4-p.aspx>

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TITLE 4 Way Broadband Combiner SMA Interface from 1 GHz to 6 GHz		DWG NO MPP1K06K0100-4		CAGE CODE 3FKR5	
CAD FILE	091914	SHEET	SCALE	N/A	SIZE A 2233