

4 Way Broadband Combiner N Interface from 80 MHz to 1 GHz

MPP0801K0500-4 is a 4 way High Power Broadband RF Combiner with max power at 500 watts operating from 80 to 1000 MHz with 50 ohm N connectors. The MPP0801K0500-4 has greater than 12 dB typical isolation, less than 0.75 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°C, with a foot print of 5.10"x4.72"x1.54".

Electrical Specifications

Design			Reactive	
Number of Input Ports			4	
Description	Min	Typ	Max	Units
Frequency Range	80		1,000	MHz
Impedance		50		Ohms
Output VSWR			1.3:1	
Insertion Loss			0.75	dB
Isolation	12			dB
Amplitude Balance		± 0.25		dB
Phase Balance		± 5		Degrees
Power Handling (CW)			500	Watts
**See Electrical Notes				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.08 to 0.125	0.125 to 1				GHz
Isolation, Min	12	15				dB

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

Mechanical Specifications

Size	
Length	5.1 in [129.54 mm]
Width	4.72 in [119.89 mm]
Height	1.54 in [39.12 mm]
Weight	2.5666 lbs [1.16 kg]
Housing Material and Plating	Aluminum Alloy
Configuration	
Input Connector	N Female
Output Connectors	N Female

Environmental Specifications

Temperature	
Operating Range	-55 to +85 deg C



Features:

- 80 to 1000 MHz Frequency
- 500 watt max power
- Insertion Loss: < 0.75 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

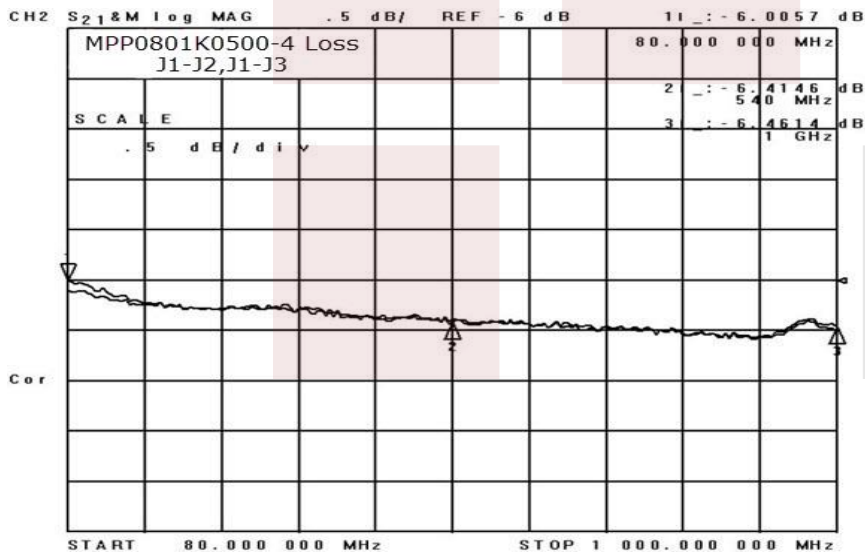
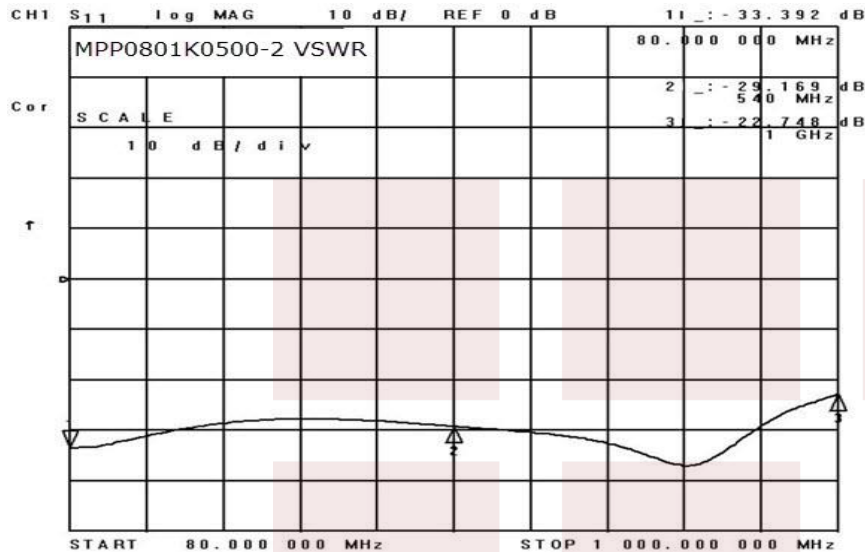
Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

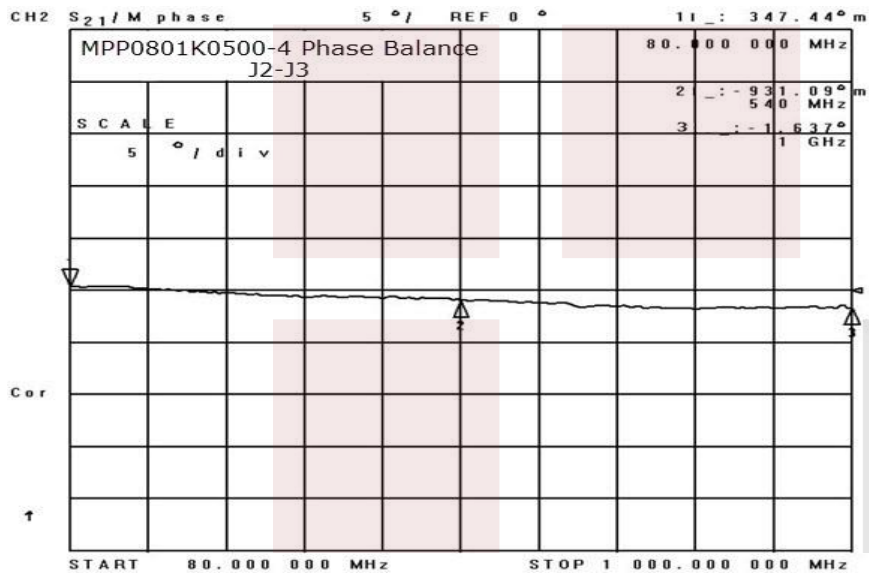
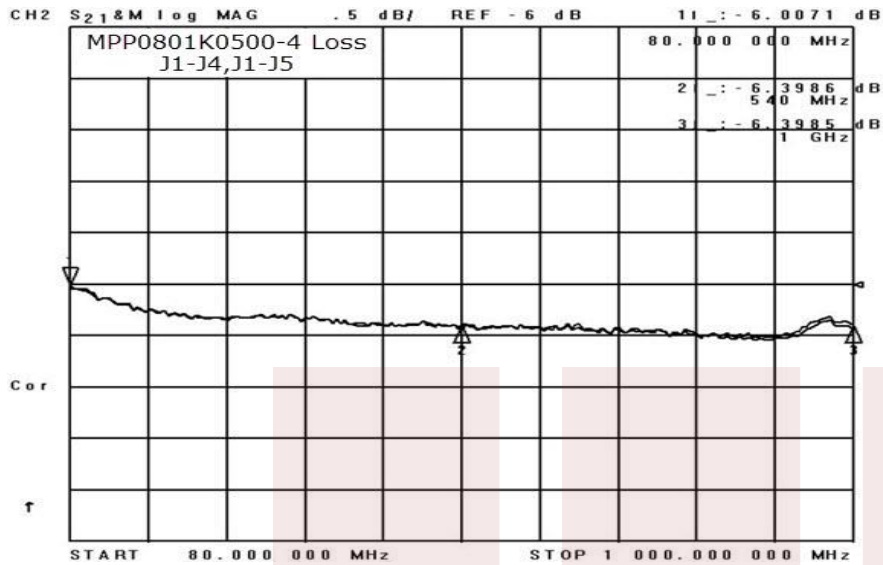
Compliance Certifications (see [product page](#) for current document)

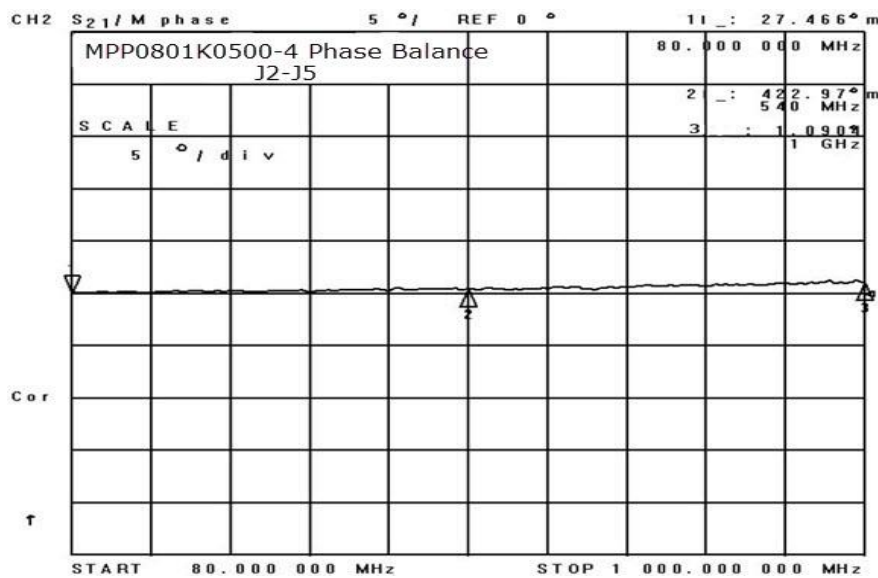
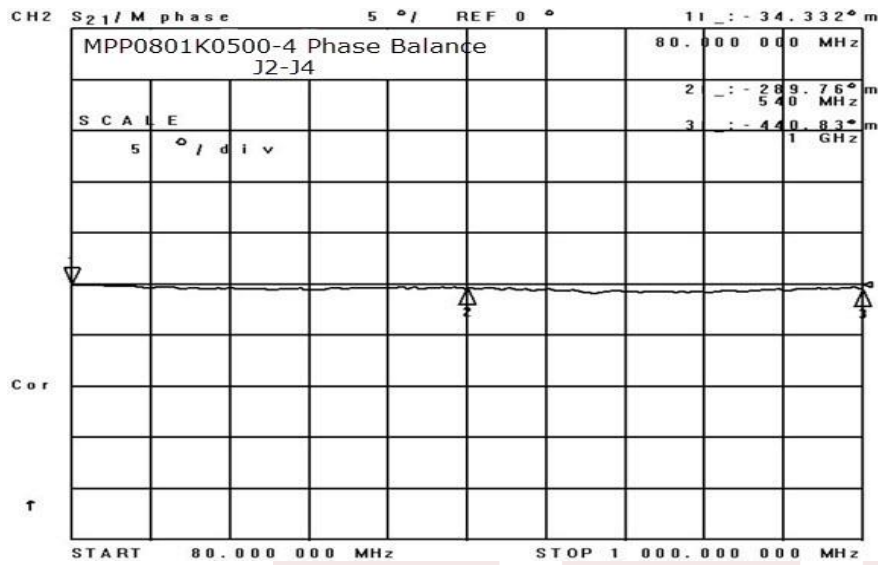
Plotted and Other Data

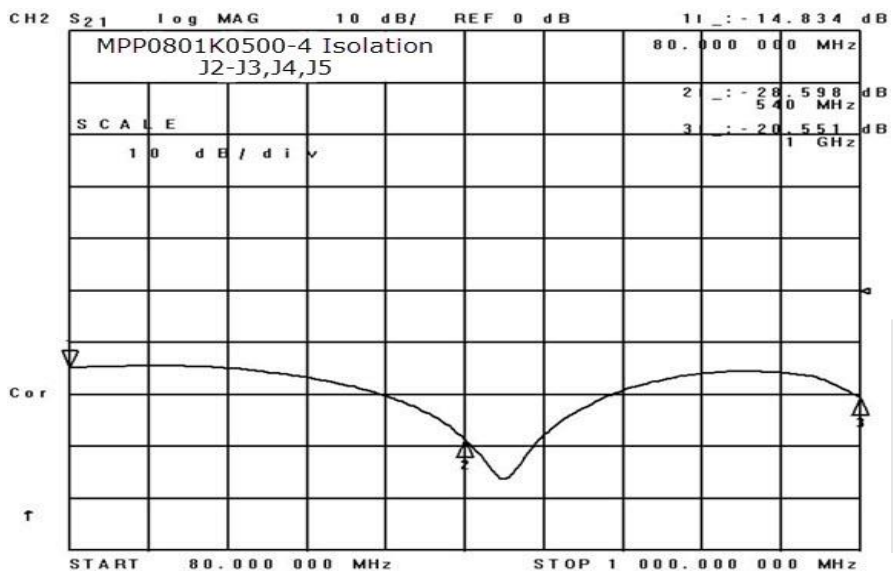
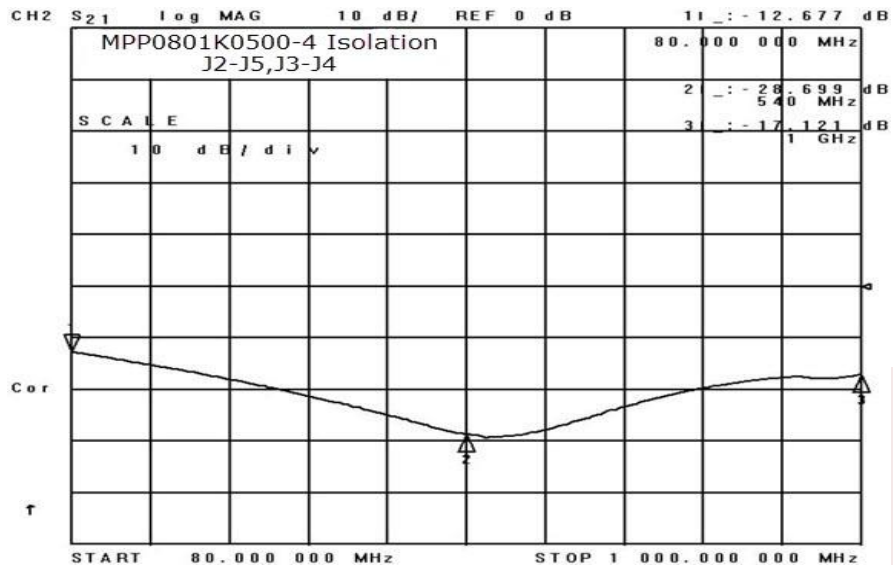
Notes:

Typical Performance Data









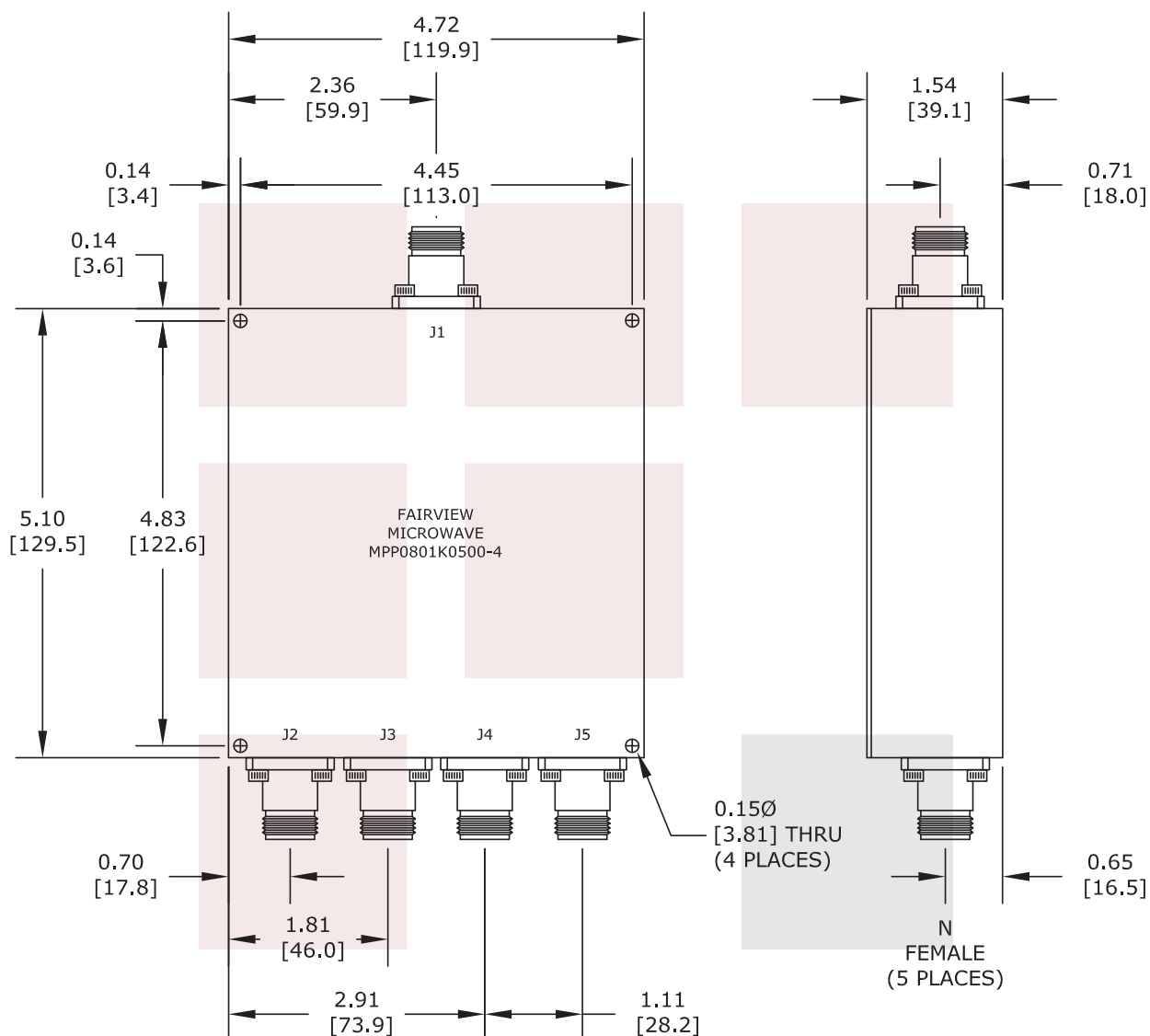
4 Way Broadband Combiner N Interface from 80 MHz to 1 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [4 Way Broadband Combiner N Interface from 80 MHz to 1 GHz MPP0801K0500-4](https://www.fairviewmicrowave.com/4-way-power-combiner-n-broadband-1000-mhz-500-watts-mpp0801k0500-4-p.aspx)

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TITLE 4 Way Broadband Combiner N Interface from 80 MHz to 1 GHz		DWG NO MPP0801K0500-4		CAGE CODE 3FKR5	
CAD FILE	091914	SHEET	SCALE	N/A	SIZE A 2233