

Surface Mount

# Power Splitter/Combiner

## JPS-2-900+ JPS-2-900

2 Way-0° 50Ω 400 to 900 MHz



Generic photo used for illustration purposes only

CASE STYLE: BH292

**+RoHS Compliant**

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Maximum Ratings

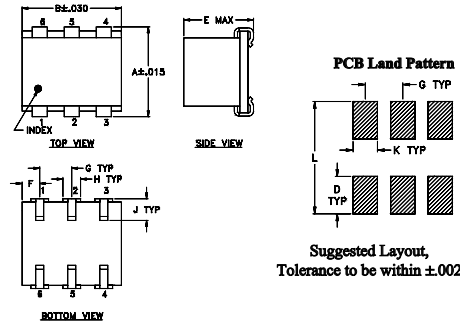
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

### Pin Connections

SUM PORT	1
PORT 1	3
PORT 2	4
GROUND	6
NOT USED	2,5

### Outline Drawing



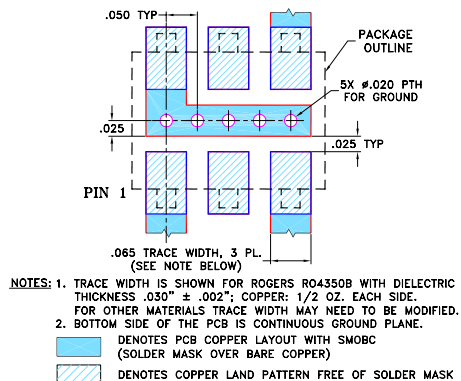
### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.280	.310	--	.100	.225	.055	.100
7.11	7.87	--	2.54	5.72	1.40	2.54

H	J	K	L	wt
.047	.065	.065	.300	grams
1.19	1.65	1.65	7.62	0.45

### Demo Board MCL P/N: TB-48+ Suggested PCB Layout (PL-035)



### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

### Features

- low insertion loss, 0.5 dB typ.
- excellent isolation, 24 dB typ.
- excellent VSWR, 1.22:1 typ.
- low amplitude unbalance 0.1 dB typ.
- J-leads for excellent solderability and strain relief

### Applications

- cellular
- UHF receivers/transmitters

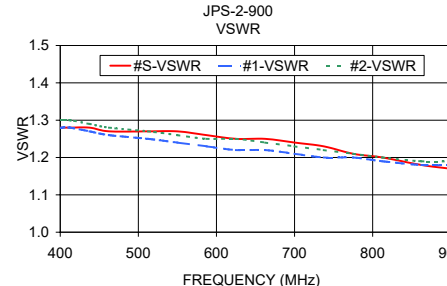
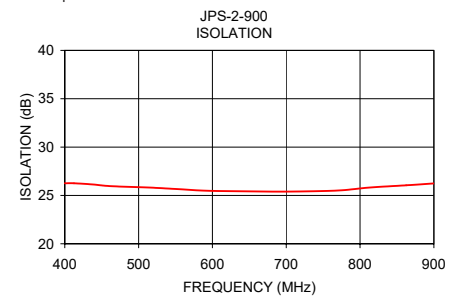
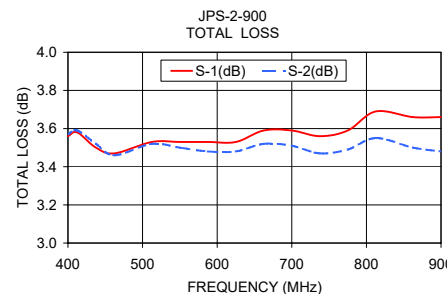
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min	Typ.	Max.	Max.	Max.
$f_c$ - $f_u$	24	18	0.5	1.2	3.0	0.4

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
400.00	3.56	3.57	0.01	26.26	0.74	1.28	1.28	1.30
412.50	3.58	3.59	0.01	26.26	0.69	1.28	1.28	1.30
437.50	3.50	3.52	0.01	26.14	0.66	1.28	1.27	1.29
462.50	3.47	3.46	0.01	25.96	0.69	1.27	1.26	1.28
512.50	3.53	3.52	0.01	25.82	0.77	1.27	1.25	1.27
550.00	3.53	3.50	0.03	25.67	0.79	1.27	1.24	1.26
587.50	3.53	3.48	0.05	25.50	0.84	1.26	1.23	1.25
625.00	3.53	3.48	0.05	25.44	0.88	1.25	1.22	1.25
662.50	3.59	3.52	0.07	25.41	1.00	1.25	1.22	1.24
700.00	3.59	3.51	0.09	25.39	0.97	1.24	1.21	1.23
737.50	3.56	3.47	0.09	25.43	1.04	1.23	1.20	1.22
775.00	3.59	3.49	0.10	25.53	1.05	1.21	1.20	1.21
812.50	3.69	3.55	0.13	25.81	1.02	1.20	1.19	1.20
862.50	3.66	3.50	0.16	26.05	1.00	1.18	1.18	1.19
900.00	3.66	3.48	0.18	26.24	1.11	1.17	1.18	1.19

1. Total Loss = Insertion Loss + 3dB splitter loss.



### electrical schematic

