

Surface Mount

Power Splitter/Combiner

JPS-2-900+ JPS-2-900

2 Way-0° 50Ω 400 to 900 MHz



Maximum Ratings

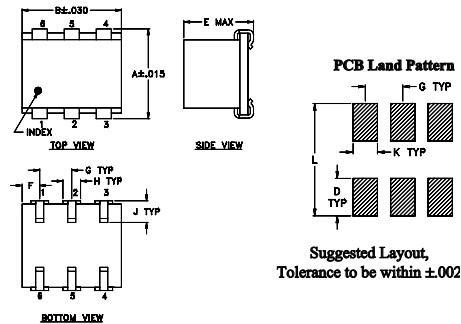
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

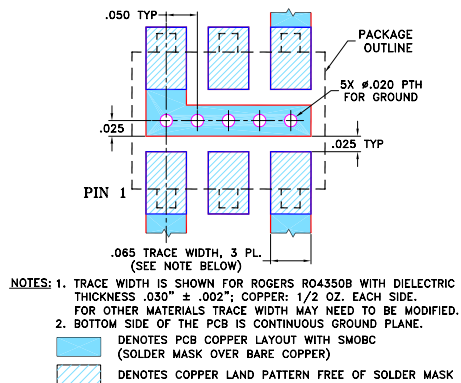


Outline Dimensions (inch/mm)

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)



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

CASE STYLE: BH292
PRICE: \$9.95 ea. QTY. (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

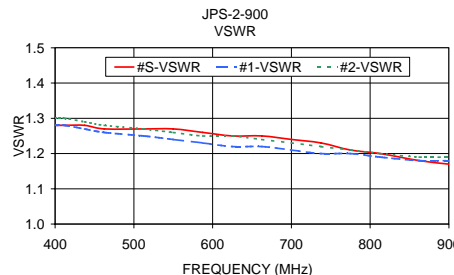
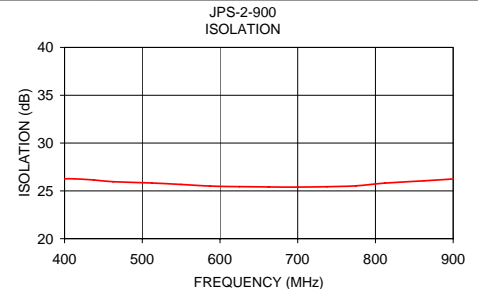
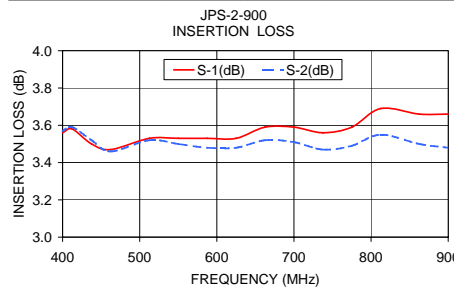
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

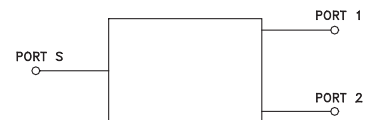
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min	Typ.	Max.	Max.	Max.
$f_c - f_u$	24	18	0.5	1.2	3.0	0.4
400-900						

Typical Performance Data

Frequency (MHz)	Insertion Loss (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



electrical schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

REV. B
M102713
JPS-2-900
ED-4852/1
WZ/TD/CP
090824