

Surface Mount

Power Splitter/Combiner

2 Way-0° 50Ω 1 to 500 MHz

JPS-2-1+
JPS-2-1

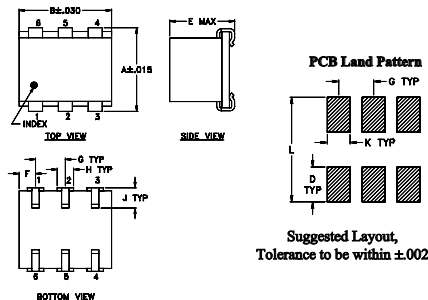

Maximum Ratings

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

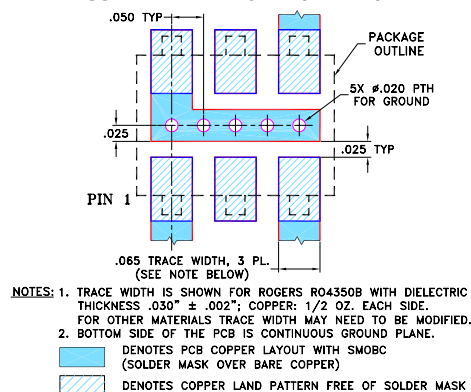
Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	wt
.280	.310	--	.100	.225	.055	.100	.047	.065	.065	.300	grams
7.11	7.87	--	2.54	5.72	1.40	2.54	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, 0.25 dB typ.
- excellent insertion loss flatness, 0.3 dB peak to peak
- excellent amplitude unbalance, 0.1 dB typ.
- very good phase unbalance, 0.1 deg. typ.
- J-leads for excellent solderability and strain relief

Applications

- VHF receivers/transmitters
- instrumentation

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.

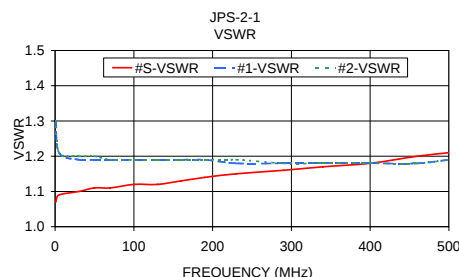
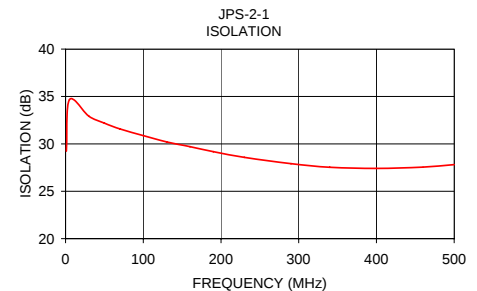
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
$f_c - f_u$	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-500	34	20	30	20	27	20	0.2	0.8	0.25	0.7	0.4	0.9	1.0	2.0	3.0	0.1	0.2	0.3

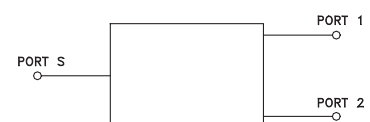
L = 1-10 MHz M = 10-250 MHz U = 250-500 MHz

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						
1.00	3.36	3.29	0.06	29.23	0.10	1.07	1.30	1.30
5.00	3.23	3.18	0.05	34.66	0.09	1.09	1.21	1.21
30.00	3.20	3.14	0.05	32.92	0.05	1.10	1.19	1.20
50.00	3.21	3.16	0.05	32.19	0.17	1.11	1.19	1.20
70.00	3.22	3.16	0.06	31.58	0.09	1.11	1.19	1.19
100.00	3.25	3.17	0.08	30.87	0.02	1.12	1.19	1.19
130.00	3.26	3.19	0.08	30.21	0.09	1.12	1.19	1.19
160.00	3.29	3.19	0.11	29.71	0.02	1.13	1.19	1.19
190.00	3.29	3.20	0.10	29.18	0.07	1.14	1.19	1.19
230.00	3.33	3.24	0.09	28.58	0.11	1.15	1.18	1.19
290.00	3.37	3.25	0.12	27.91	0.04	1.16	1.18	1.18
340.00	3.40	3.30	0.10	27.53	0.02	1.17	1.18	1.18
400.00	3.42	3.30	0.12	27.41	0.01	1.18	1.18	1.18
460.00	3.49	3.38	0.11	27.55	0.16	1.20	1.18	1.18
500.00	3.52	3.39	0.13	27.81	0.32	1.21	1.19	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

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.

For detailed performance specs
& shopping online see web site

REV. C
M102713
JPS-2-1
ED-7773/2
DY/TD/CP
090824