

Surface Mount

Power Splitter/Combiner

2 Way-0° 50Ω 1 to 500 MHz

JPS-2-1+
JPS-2-1

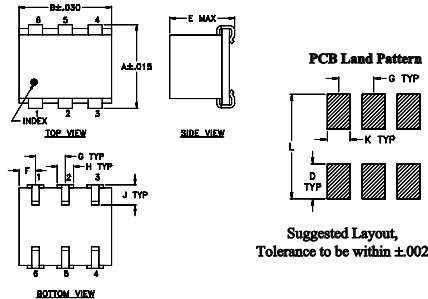

Maximum Ratings

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

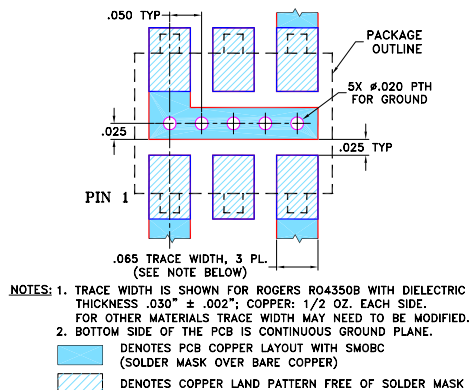


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.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, 0.25 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

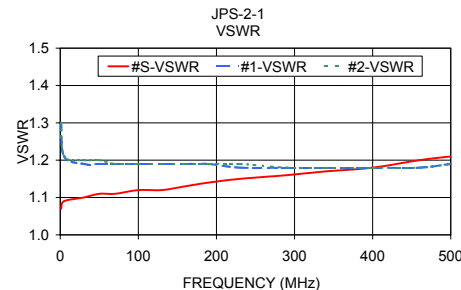
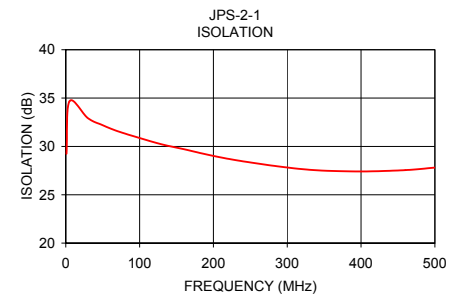
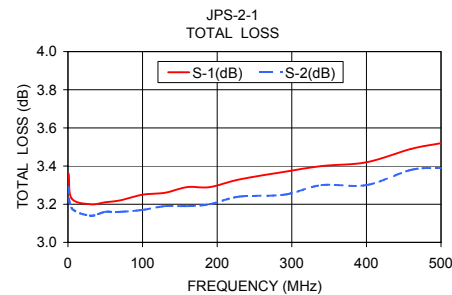
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L			L		
$f_c - f_u$	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-500	34	20	30	20	27	20	0.2	0.8	0.25	0.7	0.4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

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



electrical schematic



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IF/RF MICROWAVE COMPONENTS

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