

Surface Mount

Power Splitter/Combiner

JPS-2-1W+ JPS-2-1W

2 Way-0° 50Ω 3 to 750 MHz



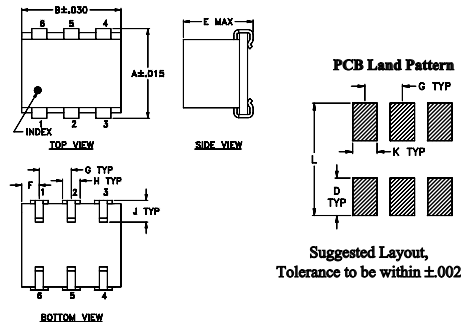
Maximum Ratings

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.

Pin Connections

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

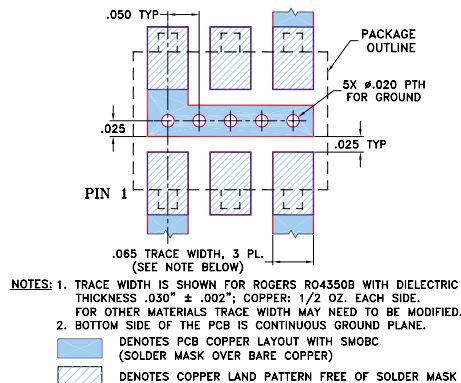
Outline Drawing



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, 0.4 dB typ.
- excellent insertion loss flatness, 0.2 dB peak to peak typ.
- excellent amplitude unbalance, 0.05 dB typ.
- very good phase unbalance, 0.1 deg. typ.
- excellent VSWR, 1.1:1 typ. all ports.
- J-leads for excellent solderability and strain relief

Applications

- UHF/VHF
- instrumentation
- communications systems

CASE STYLE: BH292
PRICE: \$8.95 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.

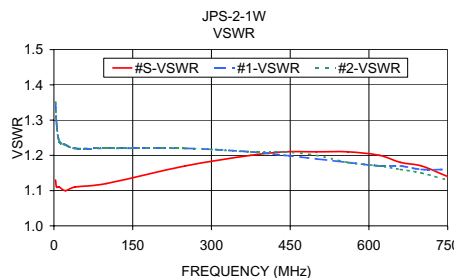
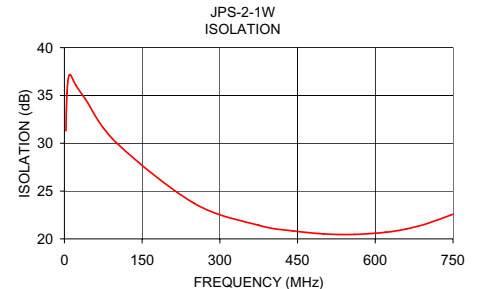
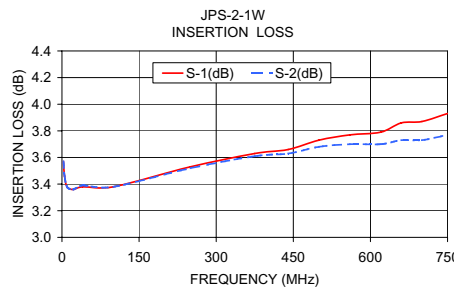
Splitter Electrical Specifications

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	L	M	U
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
3-750	36	20	28	17	19	16	0.5	0.8	0.4	1.0	0.9	1.4	1.0	2.0	4.0	0.2	0.3	0.4

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

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						
3.00	3.57	3.57	0.00	31.30	0.00	1.13	1.35	1.35
5.00	3.46	3.46	0.00	35.31	0.01	1.11	1.29	1.29
10.00	3.38	3.38	0.00	37.17	0.02	1.11	1.24	1.24
22.00	3.36	3.36	0.00	36.06	0.06	1.10	1.23	1.23
40.00	3.38	3.39	0.01	34.66	0.08	1.11	1.22	1.22
100.00	3.38	3.38	0.00	30.08	0.27	1.12	1.22	1.22
250.00	3.53	3.52	0.01	23.73	0.49	1.17	1.22	1.22
375.00	3.63	3.61	0.03	21.42	0.73	1.20	1.21	1.21
440.00	3.66	3.63	0.03	20.84	0.85	1.21	1.20	1.21
500.00	3.73	3.68	0.06	20.52	0.84	1.21	1.19	1.20
560.00	3.77	3.70	0.07	20.46	0.93	1.21	1.18	1.18
620.00	3.79	3.70	0.09	20.69	0.88	1.20	1.17	1.17
660.00	3.86	3.73	0.13	21.04	0.90	1.18	1.17	1.16
700.00	3.87	3.73	0.14	21.60	0.89	1.17	1.16	1.15
750.00	3.93	3.77	0.16	22.58	0.83	1.14	1.16	1.13



electrical schematic

