

Surface Mount

Power Splitter/Combiner

JPS-2-4+
JPS-2-4

2 Way-0° 50Ω 100 to 1000 MHz



Maximum Ratings

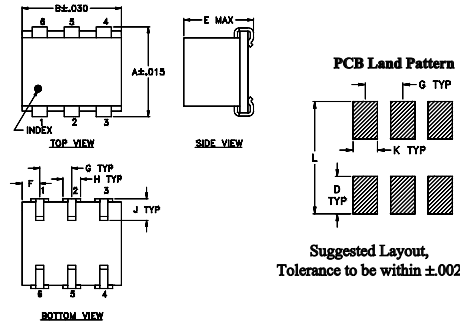
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

Pin Connections

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

Outline Drawing

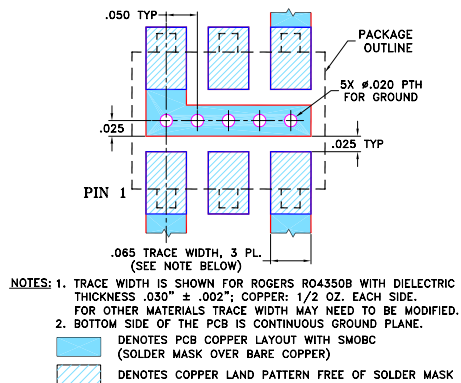


Outline Dimensions (inch/mm)

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

- wide bandwidth 100-1000 MHz
- low insertion loss, 0.5 dB typ.
- good isolation, 22 dB typ.
- excellent VSWR
- J-leads for excellent solderability and strain relief

Applications

- VHF/UHF
- cellular
- instrumentation

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

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

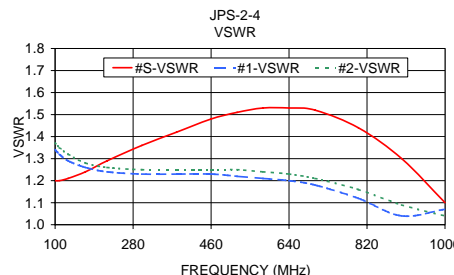
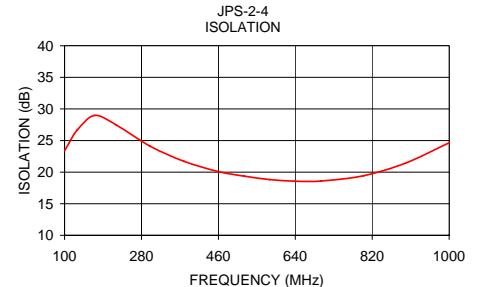
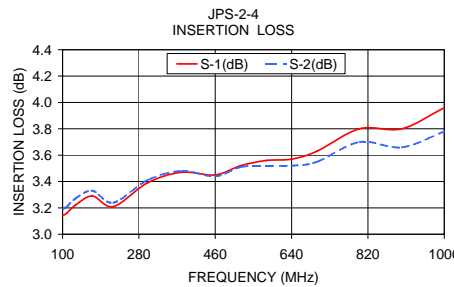
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

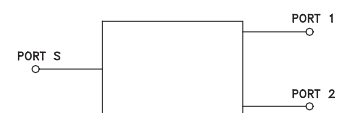
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min	Typ.	Max.	Max.	Max.
f_c - f_u	22	16	0.5	1.4	5.0	0.4

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						
100.00	3.14	3.19	0.06	23.36	0.47	1.20	1.34	1.37
110.00	3.16	3.21	0.05	24.54	0.35	1.20	1.32	1.35
130.00	3.22	3.27	0.05	26.69	0.32	1.21	1.29	1.32
170.00	3.29	3.33	0.05	28.97	0.20	1.24	1.26	1.28
220.00	3.21	3.24	0.03	27.50	0.09	1.29	1.24	1.26
300.00	3.39	3.41	0.03	24.11	0.05	1.36	1.23	1.25
380.00	3.47	3.48	0.01	21.70	0.08	1.42	1.23	1.25
460.00	3.45	3.44	0.01	20.09	0.11	1.48	1.23	1.25
520.00	3.52	3.51	0.02	19.37	0.09	1.51	1.22	1.25
580.00	3.56	3.52	0.04	18.82	0.09	1.53	1.21	1.24
640.00	3.57	3.52	0.05	18.57	0.05	1.53	1.20	1.23
700.00	3.63	3.55	0.08	18.59	0.00	1.52	1.18	1.21
800.00	3.80	3.70	0.10	19.43	0.31	1.44	1.12	1.16
900.00	3.80	3.66	0.15	21.49	0.55	1.30	1.04	1.09
1000.00	3.96	3.78	0.18	24.65	1.08	1.10	1.07	1.04



electrical schematic



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