

Surface Mount Power Splitter/Combiner

JPS-3-1W+ JPS-3-1W

3 Way-0° 50Ω 50 to 750 MHz



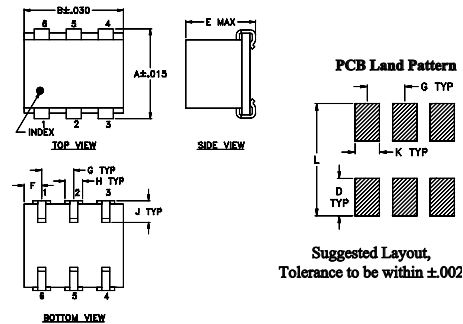
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

SUM PORT	1
PORT 1	6
PORT 2	4
PORT 3	3
GROUND	2,5

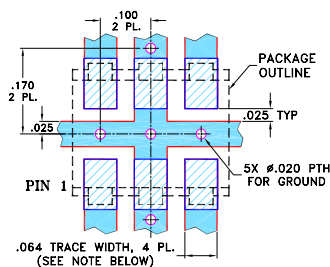
Outline Drawing



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-211 Suggested PCB Layout (PL-097)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- wideband, 50 to 750 MHz
- low insertion loss, 0.4 dB typ.
- solder plated J-leads

Applications

- VHF/UHF
- defense & federal communications

CASE STYLE: BH292
PRICE: \$14.95 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.

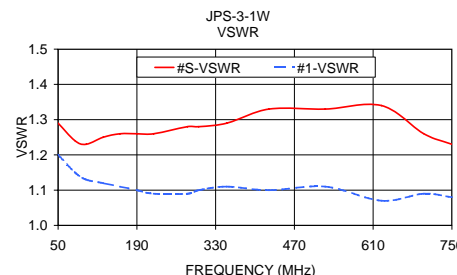
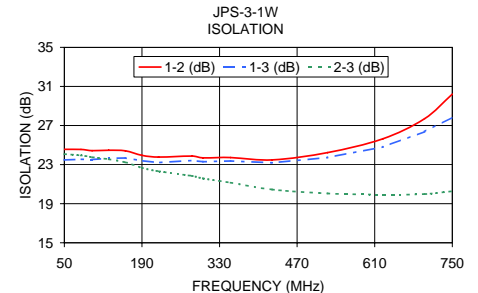
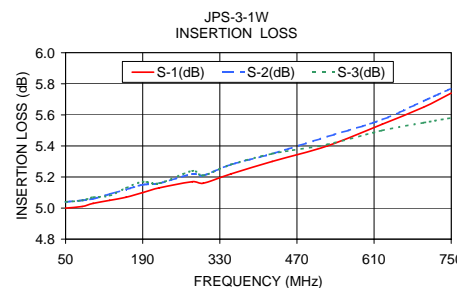
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)					
	L	U	L	U	L	U	L	U				
f_l - f_u	Typ.	Min.	Typ.	Min.	Typ.	Max.	Max.	Max.				
50-750	23	17	25	17	0.4	1.0	0.9	1.4	6	7	0.3	0.6

L = low range [f_l to $f_u/2$] U = upper range [$f_u/2$ to f_u]

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
50.00	5.00	5.04	5.04	0.04	24.56	23.48	24.08	0.21	1.29	1.20	1.18	1.20
80.00	5.01	5.05	5.05	0.04	24.55	23.55	23.95	0.31	1.24	1.15	1.14	1.15
100.00	5.03	5.06	5.07	0.04	24.43	23.52	23.76	0.51	1.23	1.13	1.13	1.12
130.00	5.05	5.09	5.08	0.04	24.47	23.65	23.56	0.60	1.25	1.12	1.13	1.11
160.00	5.07	5.12	5.13	0.06	24.41	23.68	23.24	0.67	1.26	1.11	1.12	1.10
190.00	5.10	5.15	5.17	0.07	23.95	23.40	22.67	0.78	1.26	1.10	1.11	1.11
220.00	5.13	5.16	5.16	0.04	23.77	23.21	22.32	0.91	1.26	1.09	1.09	1.11
280.00	5.17	5.22	5.24	0.07	23.87	23.42	21.85	1.07	1.28	1.09	1.10	1.10
300.00	5.16	5.21	5.21	0.05	23.69	23.30	21.59	0.99	1.28	1.10	1.11	1.10
350.00	5.22	5.28	5.28	0.06	23.72	23.37	21.16	1.13	1.29	1.11	1.12	1.12
425.00	5.30	5.35	5.35	0.05	23.48	23.19	20.45	1.21	1.33	1.10	1.12	1.12
525.00	5.40	5.46	5.41	0.06	24.23	23.73	20.05	1.32	1.33	1.11	1.10	1.08
625.00	5.54	5.57	5.50	0.08	25.65	24.82	19.93	1.29	1.34	1.07	1.06	1.05
700.00	5.65	5.69	5.55	0.14	27.70	26.38	19.99	1.28	1.26	1.09	1.07	1.06
750.00	5.74	5.77	5.58	0.19	30.21	27.84	20.28	1.05	1.23	1.08	1.04	1.07



electrical schematic



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