

Power Splitter/Combiner

JPS-2-4+

2 Way-0° 50Ω 100 to 1000 MHz

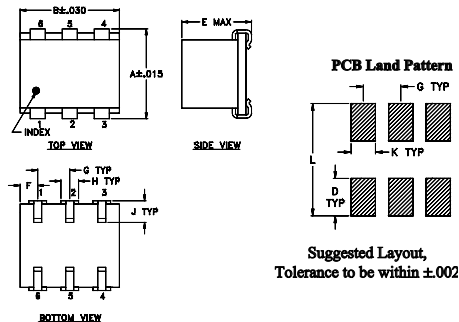
Maximum Ratings

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

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

Outline Drawing

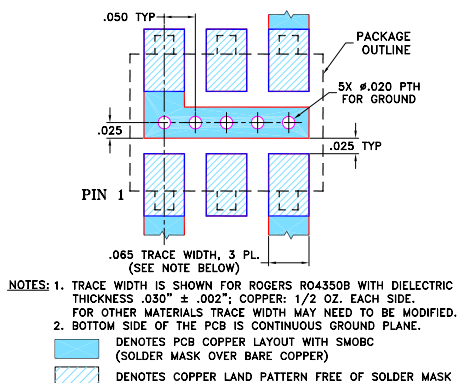


Outline Dimensions (inch/mm)

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)



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.

Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document 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

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

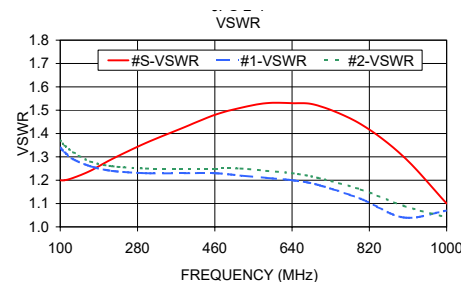
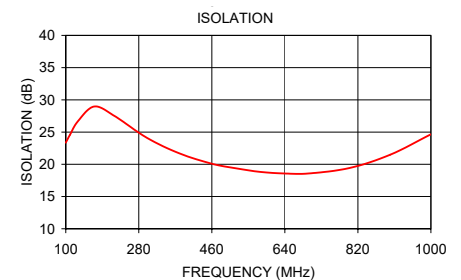
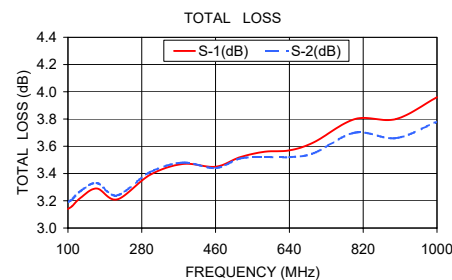
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
100-1000	22	16	0.5	1.4	5.0	0.4

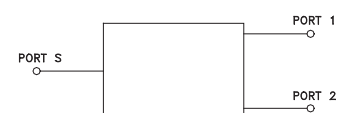
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
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

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



electrical schematic



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