

Power Splitter/Combiner

2 Way-0° 50Ω 350 to 550 MHz

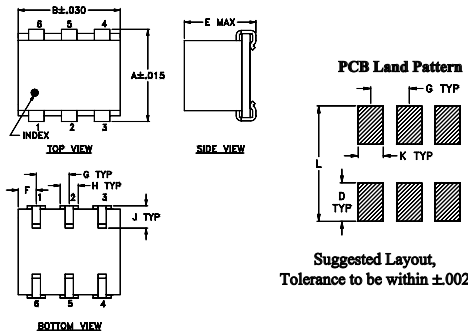
Maximum Ratings

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

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

Outline Drawing

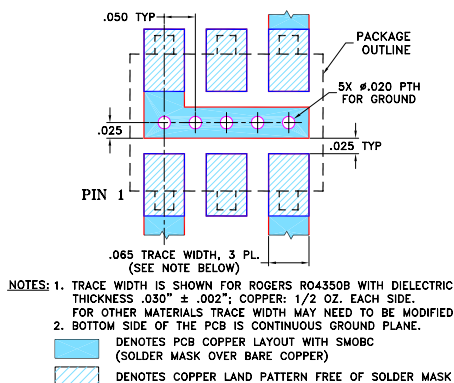


Outline Dimensions (inch/mm)

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)



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.

Blue hatched area = DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
White area = DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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

- low insertion loss, 0.25 dB typ.
- excellent isolation, 30 dB typ.
- excellent VSWR, 1.15:1 typ.
- J-leads for excellent solderability and strain relief

Applications

- VHF/UHF
- signal processing
- instrumentation



Generic photo used for illustration purposes only

CASE STYLE: BH292

+RoHS Compliant

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

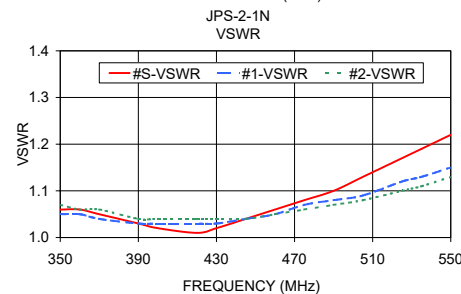
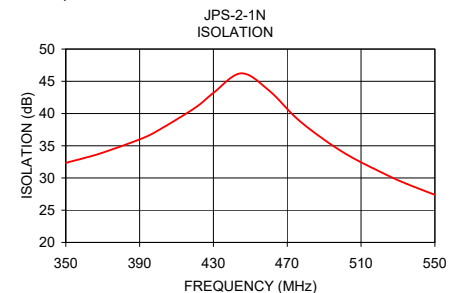
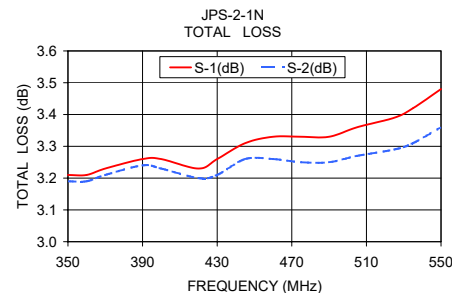
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ.	Min	Typ.	Max.	Max.	Max.
350-550	30	20	0.25	0.5	3.0	0.3

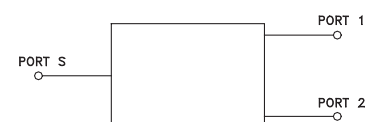
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
350.00	3.21	3.19	0.02	32.34	0.55	1.06	1.05	1.07
360.00	3.21	3.19	0.03	33.09	0.55	1.06	1.05	1.06
370.00	3.23	3.21	0.02	33.93	0.56	1.05	1.04	1.06
390.00	3.26	3.24	0.03	35.99	0.58	1.03	1.03	1.04
400.00	3.26	3.23	0.03	37.37	0.60	1.02	1.03	1.04
420.00	3.23	3.20	0.03	40.88	0.54	1.01	1.03	1.04
430.00	3.26	3.21	0.05	43.19	0.56	1.02	1.03	1.04
445.00	3.31	3.26	0.05	46.23	0.54	1.04	1.04	1.04
460.00	3.33	3.26	0.07	43.60	0.64	1.06	1.05	1.05
475.00	3.33	3.25	0.08	39.28	0.57	1.08	1.07	1.06
490.00	3.33	3.25	0.07	35.94	0.51	1.10	1.08	1.07
505.00	3.36	3.27	0.09	33.20	0.60	1.13	1.09	1.08
525.00	3.39	3.29	0.10	30.32	0.51	1.17	1.12	1.10
535.00	3.42	3.31	0.10	29.06	0.49	1.19	1.13	1.11
550.00	3.48	3.36	0.12	27.39	0.50	1.22	1.15	1.13

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



electrical schematic



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