

Power Splitter/Combiner

2 Way-0°

50Ω

1 to 650 MHz

ADP-2-1W+

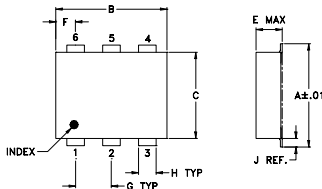
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	2W max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

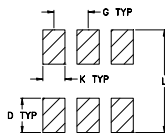
Pin Connections

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

Outline Drawing



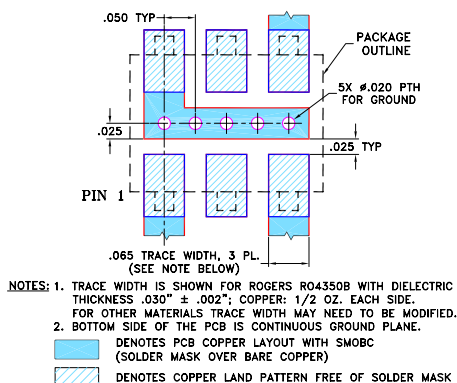
PCB Land Pattern

Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	
.272	.310	.220	.100	.162	.055	.100	
6.91	7.87	5.59	2.54	4.11	1.40	2.54	
H	J	K	L				wt
.030	.026	.065	.300				grams
0.76	0.66	1.65	7.62				0.25

Demo Board MCL P/N: TB-48+ Suggested PCB Layout (PL-035)



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-Circuits' 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 amplitude unbalance, 0.01 dB typ.
- very good phase unbalance, 0.2 deg. typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

Applications

- VHF/UHF receivers/transmitters



Generic photo used for illustration purposes only

CASE STYLE: CD636

+RoHS Compliant

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

Reel Size	Devices/Reel
7"	20, 50, 100, 200
13"	500, 1000

Electrical Specifications

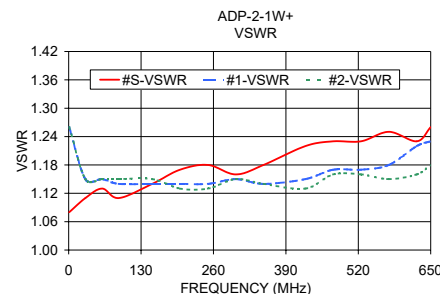
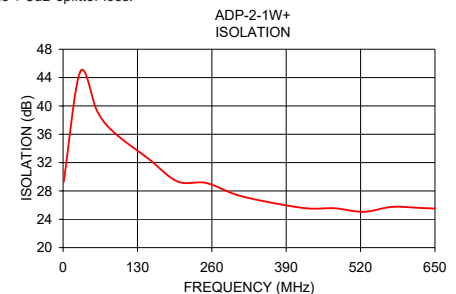
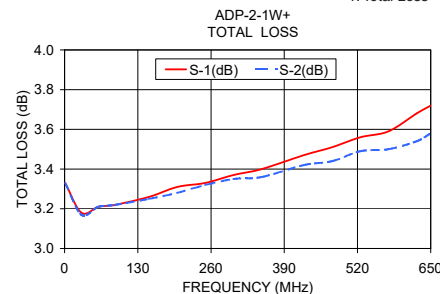
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.						
f _c -f _u	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.						
1-650	30	20	30	20	24	20	0.2	0.8	0.25	0.8	0.5	1.0	2.0	2.0	3.0	0.15	0.2	0.3

L = 1-10 MHz M = 10-325 MHz U = 325-650 MHz

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					
1.00	3.33	3.33	0.00	29.22	0.03	1.08	1.26
30.00	3.18	3.17	0.01	44.81	0.03	1.11	1.15
60.00	3.21	3.21	0.00	39.19	0.01	1.13	1.15
90.00	3.22	3.22	0.00	36.18	0.00	1.11	1.14
150.00	3.26	3.25	0.01	32.49	0.12	1.14	1.14
200.00	3.31	3.28	0.03	29.34	0.09	1.17	1.14
250.00	3.33	3.32	0.02	29.13	0.06	1.18	1.14
300.00	3.37	3.35	0.02	27.54	0.17	1.16	1.15
350.00	3.40	3.36	0.04	26.57	0.09	1.18	1.14
425.00	3.47	3.42	0.05	25.55	0.28	1.22	1.15
475.00	3.51	3.44	0.07	25.55	0.30	1.23	1.17
525.00	3.56	3.49	0.07	25.05	0.30	1.23	1.17
575.00	3.59	3.50	0.09	25.75	0.30	1.25	1.18
625.00	3.68	3.54	0.14	25.60	0.47	1.23	1.22
650.00	3.72	3.58	0.14	25.51	0.52	1.26	1.23

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



electrical schematic



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