

Power Splitter/Combiner

2 Way-0° 50Ω

20 to 2000 MHz

ADP-2-20+



Generic photo used for illustration purposes only

CASE STYLE: CD542

+RoHS Compliant

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

Available Tape and Reel at no extra cost

Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200, 500
13"	1000

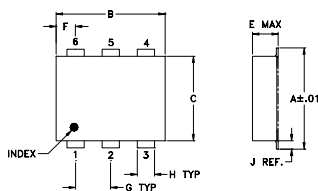
Maximum Ratings

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.	

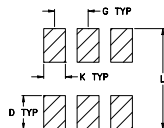
Pin Connections

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

Outline Drawing



PCB Land Pattern



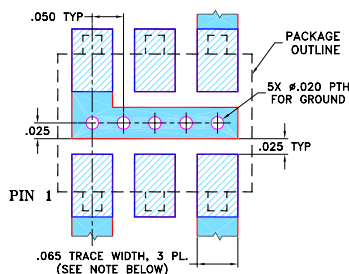
Suggested Layout, Tolerance to be within ±0.02

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.272	.310	.220	.100	.112	.055	.100
6.91	7.87	5.59	2.54	2.84	1.40	2.54

H	J	K	L	wt
.030	.026	.065	.300	grams
0.76	0.66	1.65	7.62	0.20

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.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ 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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

Features

- low insertion loss, 0.7 dB typ.
- excellent insertion loss flatness, 0.4 dB peak to peak
- excellent amplitude unbalance, 0.1 dB typ.
- good phase unbalance, 1.1 deg. typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

Applications

- instrumentation
- PCS/cellular
- GPS

Electrical Specifications

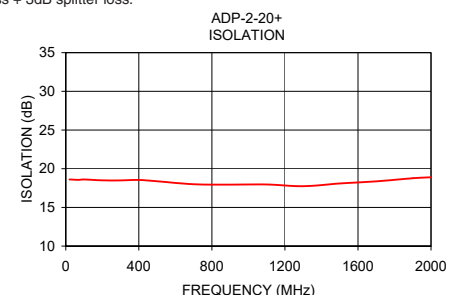
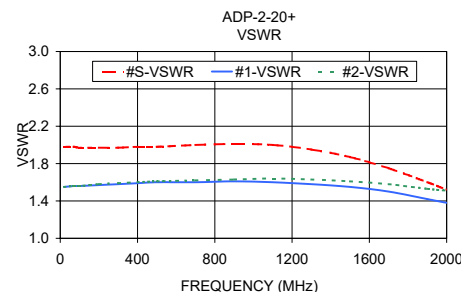
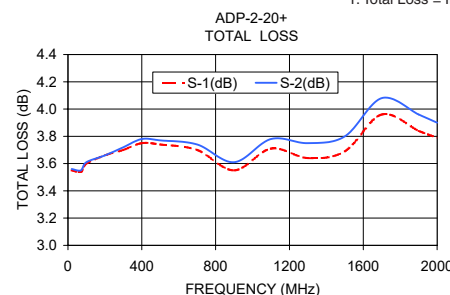
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f _c -f _u	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.
20-2000	18	15	18	15	18	15	0.5	0.8	0.7	1.0	0.8	1.5

L = 20-200 MHz M = 200-1000 MHz U = 1000-2000 MHz

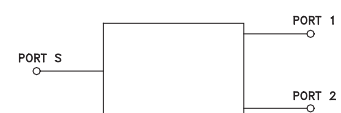
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
20.00	3.55	3.56	0.00	18.61	0.00	1.98	1.55	1.55
70.00	3.54	3.55	0.01	18.56	0.18	1.98	1.56	1.56
100.00	3.60	3.61	0.01	18.61	0.19	1.97	1.56	1.56
200.00	3.66	3.66	0.00	18.50	0.45	1.97	1.57	1.58
300.00	3.70	3.72	0.02	18.49	0.59	1.97	1.58	1.59
400.00	3.75	3.78	0.02	18.55	0.68	1.98	1.59	1.60
500.00	3.74	3.77	0.03	18.38	0.88	1.98	1.60	1.61
700.00	3.70	3.74	0.03	17.99	1.04	2.00	1.60	1.62
900.00	3.55	3.61	0.06	17.94	1.35	2.01	1.61	1.63
1100.00	3.71	3.78	0.06	17.96	1.43	2.00	1.60	1.64
1300.00	3.64	3.75	0.11	17.74	1.43	1.95	1.58	1.63
1500.00	3.69	3.80	0.11	18.09	1.32	1.87	1.55	1.61
1700.00	3.96	4.08	0.12	18.37	1.26	1.75	1.50	1.58
1900.00	3.84	3.96	0.12	18.77	1.05	1.60	1.42	1.53
2000.00	3.79	3.90	0.11	18.89	0.78	1.52	1.38	1.51

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



electrical schematic



2 Way-0° Power Splitter/Combiner

ADP-2-20+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10 dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS ⁽¹⁾ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
5	3.51	3.51	0.00	0.03	17.38	2.02	1.52	1.52
6	3.50	3.51	0.00	0.01	17.63	2.02	1.52	1.52
7	3.50	3.51	0.00	0.01	17.79	2.02	1.52	1.52
8	3.51	3.51	0.00	0.02	17.90	2.02	1.53	1.53
9	3.51	3.51	0.00	0.04	17.97	2.01	1.53	1.53
10	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
11	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
12	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
13	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
14	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
15	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
16	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
17	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
18	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
19	3.51	3.51	0.00	0.02	18.01	2.01	1.53	1.53
20	3.51	3.51	0.00	0.04	18.08	2.01	1.53	1.53
30	3.52	3.52	0.00	0.06	18.00	2.01	1.52	1.53
40	3.52	3.52	0.00	0.08	17.94	2.00	1.52	1.52
50	3.52	3.52	0.00	0.10	17.89	2.00	1.52	1.52
60	3.52	3.53	0.00	0.12	17.88	1.99	1.52	1.52
70	3.53	3.53	0.00	0.14	17.89	1.99	1.52	1.52
80	3.53	3.53	0.00	0.17	17.87	1.99	1.53	1.53
90	3.53	3.54	0.00	0.20	17.89	1.98	1.53	1.53
100	3.54	3.54	0.00	0.20	17.91	1.98	1.53	1.53
200	3.56	3.56	0.00	0.41	17.97	1.97	1.54	1.54
300	3.58	3.58	0.00	0.60	18.16	1.97	1.54	1.54
400	3.60	3.59	0.01	0.80	18.24	1.95	1.55	1.55
500	3.62	3.60	0.02	0.98	18.37	1.95	1.55	1.55
600	3.63	3.61	0.02	1.15	18.49	1.94	1.54	1.55
700	3.65	3.62	0.03	1.29	18.53	1.92	1.55	1.56
800	3.66	3.62	0.05	1.46	18.76	1.91	1.54	1.55
900	3.68	3.62	0.06	1.59	18.86	1.89	1.53	1.55
1000	3.69	3.61	0.08	1.68	19.05	1.85	1.54	1.55
1100	3.72	3.62	0.10	1.79	19.28	1.84	1.53	1.55
1200	3.75	3.62	0.12	1.86	19.40	1.81	1.53	1.54
1300	3.77	3.62	0.15	1.87	19.55	1.78	1.53	1.55
1400	3.79	3.62	0.17	1.88	19.69	1.75	1.51	1.53
1500	3.81	3.62	0.19	1.87	19.69	1.69	1.51	1.52
1600	3.83	3.61	0.22	1.84	19.86	1.64	1.49	1.52
1700	3.86	3.62	0.24	1.72	19.87	1.58	1.47	1.50
1800	3.88	3.61	0.27	1.55	19.76	1.51	1.45	1.49
1900	3.90	3.60	0.30	1.37	19.58	1.44	1.42	1.46
2000	3.95	3.65	0.30	0.99	18.86	1.39	1.37	1.45
2100	4.04	3.69	0.35	0.55	18.01	1.39	1.34	1.42
2200	4.19	3.79	0.39	0.13	16.56	1.48	1.31	1.39
2300	4.44	4.02	0.43	0.46	14.84	1.70	1.28	1.37
2400	4.89	4.43	0.46	1.25	12.97	2.15	1.32	1.41
2500	5.63	5.14	0.50	2.38	11.12	2.86	1.43	1.51

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



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IF/RF MICROWAVE COMPONENTS

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ADP-2-20+
5/1/2020
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2 Way-0° Power Splitter/Combiner

ADP-2-20+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10 dBm @Temperature = -45 °C

FREQ. (MHz)	TOTAL LOSS ⁽¹⁾ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
5	3.51	3.50	0.00	0.03	13.58	2.02	1.46	1.46
6	3.50	3.50	0.00	0.05	14.24	2.02	1.49	1.49
7	3.50	3.51	0.01	0.02	14.86	2.02	1.51	1.51
8	3.50	3.51	0.01	0.04	15.43	2.02	1.53	1.53
9	3.50	3.50	0.00	0.01	15.93	2.02	1.54	1.55
10	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
11	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
12	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
13	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
14	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
15	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
16	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
17	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
18	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
19	3.50	3.50	0.00	0.02	16.38	2.02	1.56	1.56
20	3.51	3.51	0.00	0.03	18.91	2.01	1.61	1.61
30	3.51	3.51	0.00	0.05	19.72	2.01	1.62	1.62
40	3.51	3.51	0.00	0.06	20.08	2.01	1.62	1.62
50	3.51	3.51	0.00	0.08	20.26	2.00	1.63	1.63
60	3.51	3.51	0.00	0.09	20.37	1.99	1.63	1.63
70	3.51	3.51	0.00	0.11	20.47	1.99	1.63	1.63
80	3.52	3.52	0.00	0.13	20.50	1.98	1.64	1.63
90	3.52	3.52	0.00	0.16	20.54	1.98	1.64	1.64
100	3.53	3.53	0.00	0.16	20.59	1.98	1.64	1.64
200	3.54	3.55	0.00	0.32	20.37	1.98	1.65	1.65
300	3.54	3.54	0.00	0.45	20.45	1.97	1.64	1.64
400	3.56	3.56	0.01	0.63	20.31	1.96	1.66	1.65
500	3.57	3.55	0.02	0.76	20.35	1.96	1.64	1.64
600	3.57	3.55	0.02	0.90	20.33	1.96	1.63	1.64
700	3.58	3.55	0.03	0.98	20.22	1.95	1.64	1.65
800	3.59	3.54	0.05	1.10	20.34	1.94	1.63	1.63
900	3.60	3.53	0.07	1.26	20.23	1.93	1.62	1.62
1000	3.59	3.51	0.08	1.28	20.25	1.89	1.61	1.63
1100	3.61	3.50	0.11	1.35	20.24	1.88	1.60	1.61
1200	3.62	3.49	0.13	1.41	20.14	1.84	1.60	1.60
1300	3.64	3.48	0.15	1.38	20.03	1.82	1.60	1.61
1400	3.64	3.47	0.18	1.34	19.92	1.79	1.57	1.58
1500	3.65	3.45	0.20	1.31	19.71	1.74	1.56	1.57
1600	3.66	3.43	0.22	1.29	19.65	1.68	1.54	1.56
1700	3.67	3.42	0.24	1.01	19.30	1.62	1.51	1.54
1800	3.68	3.40	0.28	0.80	18.97	1.55	1.48	1.53
1900	3.68	3.38	0.30	0.70	18.54	1.48	1.45	1.49
2000	3.72	3.41	0.30	0.08	17.59	1.43	1.39	1.47
2100	3.79	3.45	0.34	0.44	16.59	1.43	1.36	1.43
2200	3.94	3.54	0.40	0.80	15.17	1.52	1.32	1.40
2300	4.17	3.76	0.41	1.51	13.55	1.76	1.29	1.38
2400	4.62	4.18	0.44	2.43	11.81	2.23	1.33	1.41
2500	5.34	4.89	0.45	3.89	10.11	3.00	1.44	1.51

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



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REV. OR
 ADP-2-20+
 5/1/2020
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2 Way-0° Power Splitter/Combiner

ADP-2-20+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10 dBm @Temperature = +85 °C

FREQ. (MHz)	TOTAL LOSS ⁽¹⁾ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
5	3.51	3.51	0.00	0.01	15.20	2.02	1.38	1.38
6	3.51	3.51	0.00	0.02	15.26	2.01	1.39	1.39
7	3.51	3.51	0.00	0.03	15.31	2.01	1.39	1.39
8	3.51	3.51	0.00	0.06	15.34	2.01	1.39	1.39
9	3.51	3.51	0.00	0.04	15.36	2.01	1.39	1.39
10	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
11	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
12	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
13	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
14	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
15	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
16	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
17	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
18	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
19	3.51	3.51	0.00	0.03	15.38	2.01	1.39	1.39
20	3.52	3.52	0.00	0.05	15.37	2.01	1.39	1.39
30	3.53	3.53	0.00	0.08	15.31	2.00	1.39	1.39
40	3.53	3.53	0.00	0.10	15.28	2.00	1.39	1.39
50	3.53	3.54	0.00	0.12	15.25	2.00	1.39	1.39
60	3.54	3.54	0.00	0.14	15.24	2.00	1.39	1.39
70	3.54	3.54	0.00	0.17	15.26	1.99	1.39	1.40
80	3.55	3.55	0.00	0.21	15.26	1.99	1.40	1.40
90	3.55	3.55	0.00	0.24	15.28	1.99	1.40	1.40
100	3.56	3.56	0.00	0.22	15.32	1.99	1.40	1.40
200	3.57	3.58	0.00	0.49	15.65	1.96	1.41	1.41
300	3.60	3.61	0.00	0.72	15.91	1.97	1.43	1.43
400	3.63	3.63	0.00	0.95	16.10	1.94	1.44	1.45
500	3.65	3.64	0.00	1.14	16.32	1.93	1.44	1.45
600	3.67	3.67	0.00	1.35	16.61	1.93	1.44	1.46
700	3.70	3.68	0.01	1.50	16.84	1.89	1.46	1.48
800	3.72	3.69	0.03	1.65	17.20	1.88	1.46	1.48
900	3.75	3.70	0.05	1.84	17.50	1.86	1.46	1.48
1000	3.77	3.71	0.06	1.92	17.81	1.82	1.47	1.50
1100	3.81	3.73	0.08	2.03	18.21	1.80	1.47	1.50
1200	3.85	3.74	0.11	2.11	18.47	1.77	1.47	1.50
1300	3.89	3.75	0.13	2.16	18.78	1.74	1.48	1.51
1400	3.92	3.76	0.15	2.19	19.14	1.70	1.47	1.49
1500	3.95	3.77	0.18	2.20	19.35	1.65	1.46	1.49
1600	3.98	3.78	0.21	2.22	19.83	1.59	1.45	1.49
1700	4.02	3.79	0.23	2.12	20.21	1.53	1.43	1.48
1800	4.05	3.79	0.26	2.04	20.61	1.46	1.41	1.47
1900	4.07	3.79	0.28	1.94	21.12	1.39	1.39	1.44
2000	4.12	3.82	0.30	1.55	21.00	1.32	1.34	1.42
2100	4.20	3.87	0.33	1.22	20.59	1.32	1.31	1.40
2200	4.34	3.96	0.38	0.96	19.18	1.40	1.28	1.38
2300	4.58	4.16	0.42	0.43	17.15	1.61	1.25	1.36
2400	5.00	4.55	0.45	0.17	14.83	2.03	1.30	1.40
2500	5.69	5.22	0.47	1.42	12.57	2.69	1.41	1.51

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



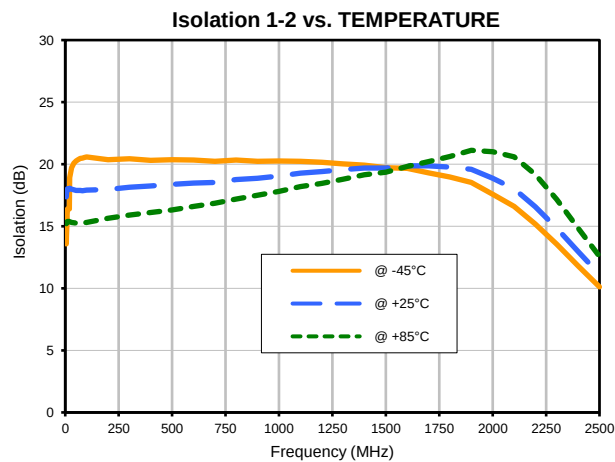
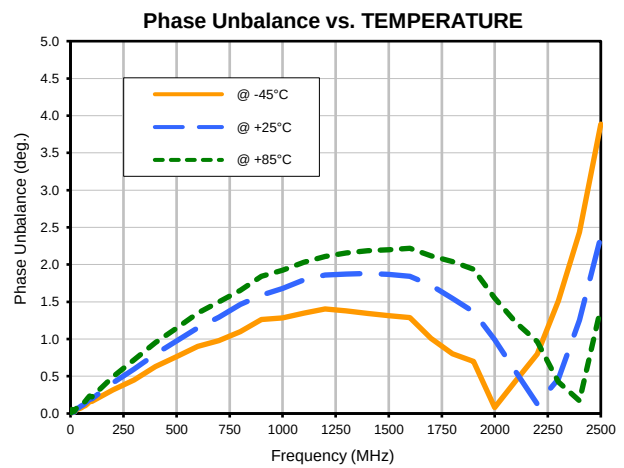
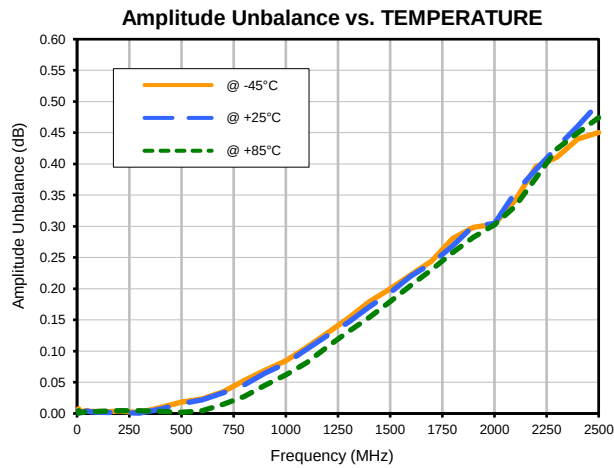
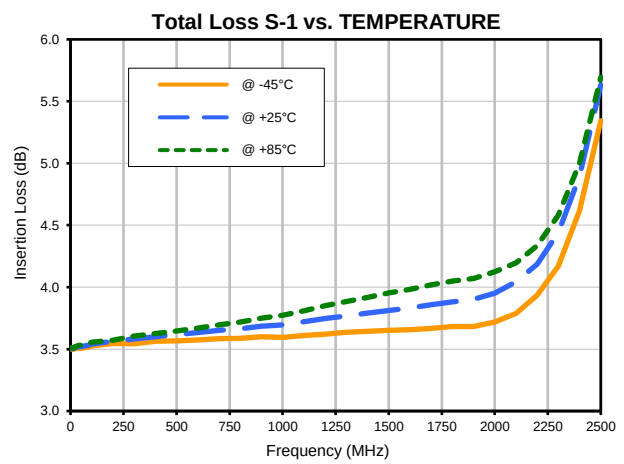
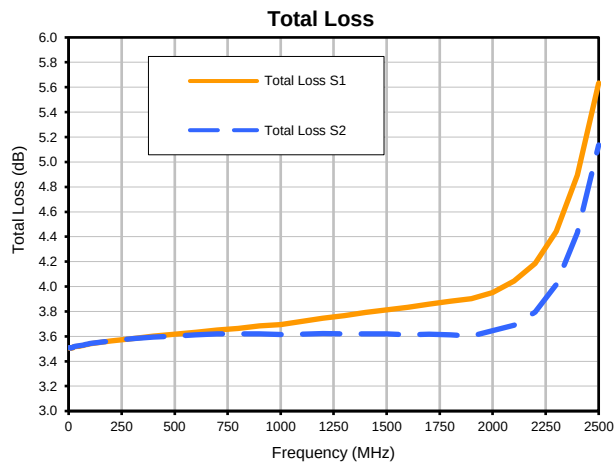
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

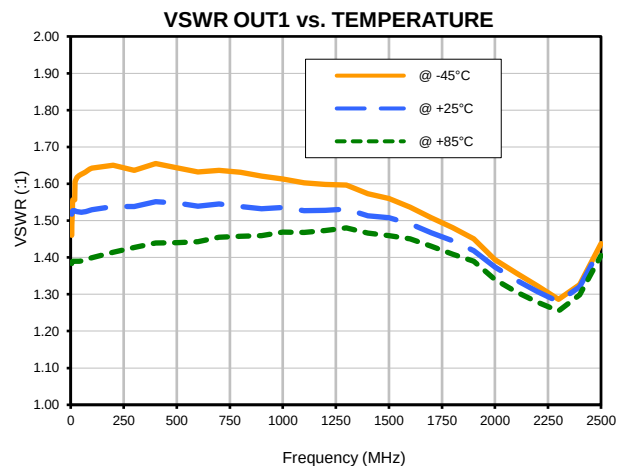
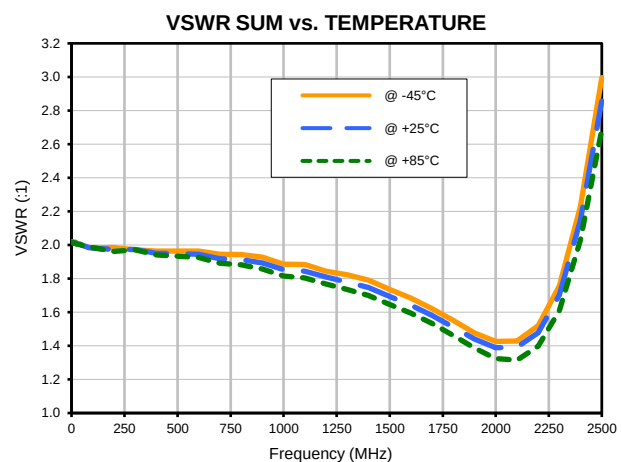
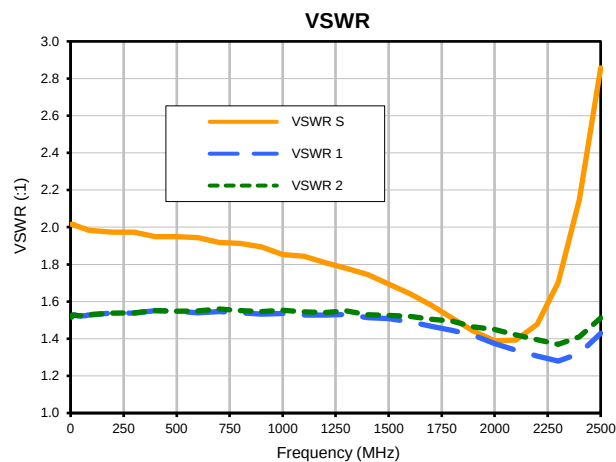


REV. OR
 ADP-2-20+
 5/1/2020
 Page 3 of 3

Typical Performance Curves

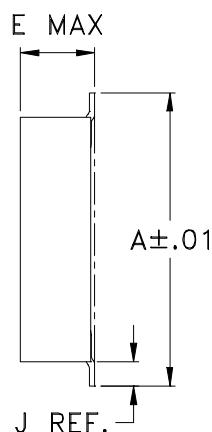
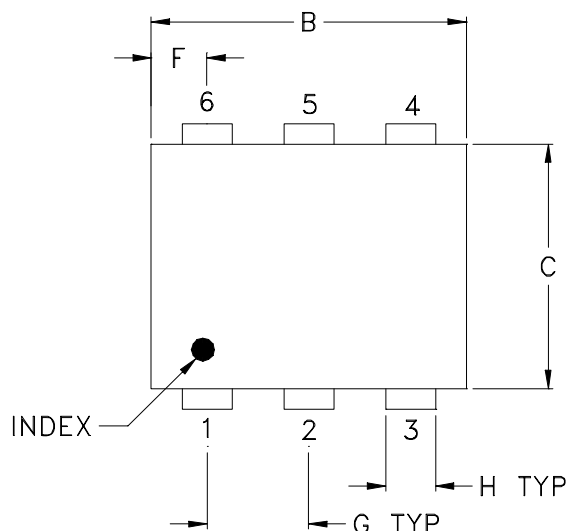


Typical Performance Curves

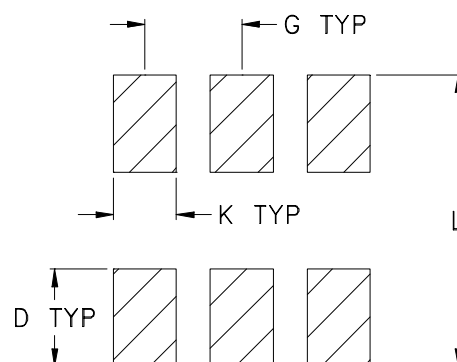


CD541
CD542
CD636
CD637

Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm.002$

CASE#	A	B	C	D	E	F	G	H	J	K	L	WT, GRAM
CD541					.082 (2.08)							.15
CD542	.272 (6.91)	.310 (7.87)	.220 (5.58)	.100 (2.54)	.112 (2.84)	.055 (1.40)	.100 (2.54)	.030 (0.76)	.026 (0.66)	.065 (1.65)	.300 (7.62)	.20
CD636					.162 (4.11)							.25
CD637					.206 (5.23)							.40

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .01$; 3 Pl. $\pm .005$

Notes:

- Case material: Plastic.
- Termination finish:
For RoHS Case Styles: Tin plate over Nickel plate. All models, (+) suffix.
For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.



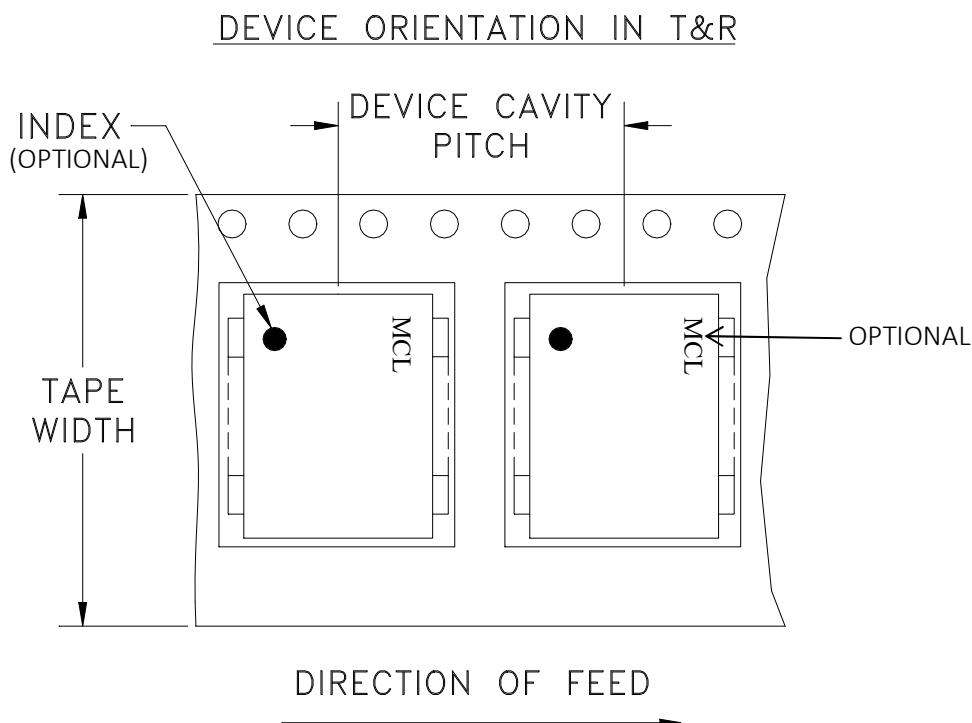
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Tape & Reel Packaging TR-F34



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel see note	
16	12	7	Small quantity standard (see note)	20
				50
				100
				200
		13	Standard	500
				1000

Note: Availability of small reel quantity varies by model.
Refer to pricing and availability on individual model dashboard.

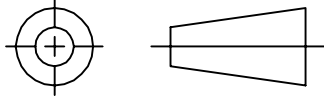
Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

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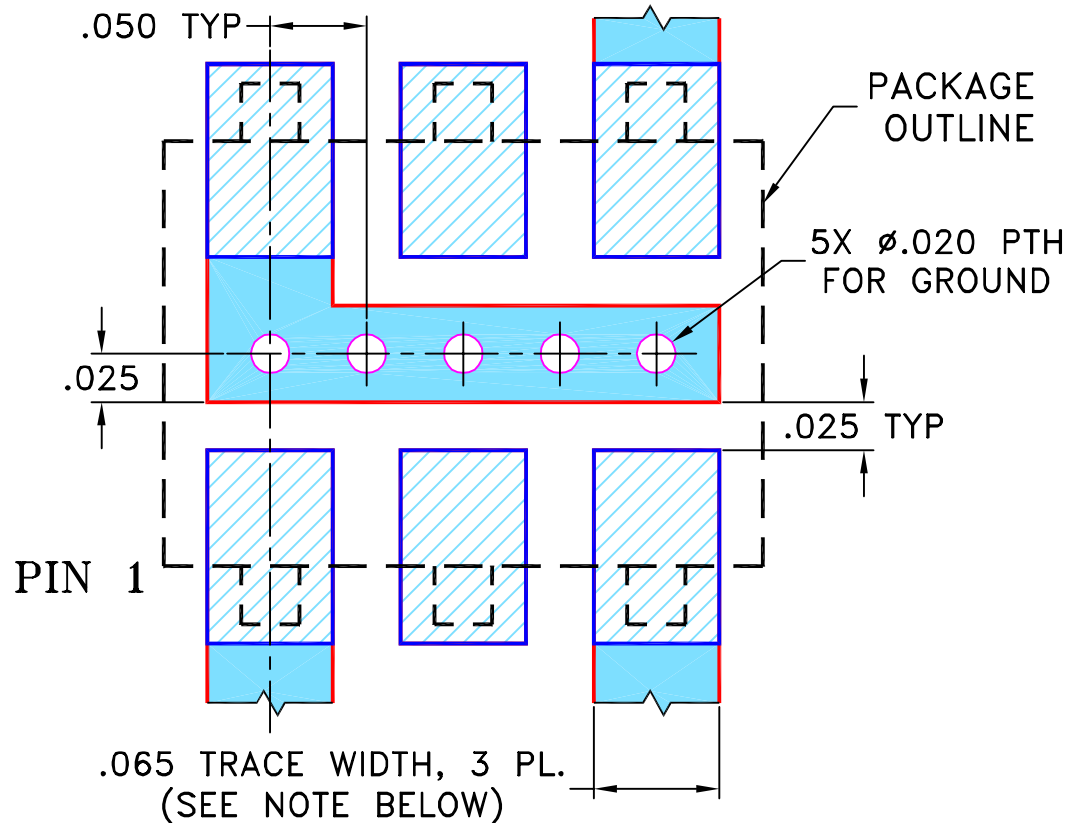
THIRD ANGLE PROJECTION



REVISIONS

REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
OR	M77049	NEW RELEASE	05/01	AV	CT
A	M82377	UPDATED DRAWING	07/31/02	AV	HY
B	M82846	UPDATED DRAWING	05/13/03	MMG	HY
C	M102713	ADDED BK292 CASE STYLE & "...WITH SMOBC"	01/17/06	MMG	IL

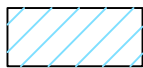
**SUGGESTED MOUNTING CONFIGURATION
FOR BK292/CD542/CD636 CASE STYLES,
"hv" PIN CONNECTION**



- NOTES:** 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" $\pm$.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.



DENOTES PCB COPPER LAYOUT WITH SMOBC
(SOLDER MASK OVER BARE COPPER)



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

UNLESS OTHERWISE SPECIFIED

INITIALS

DATE

DIMENSIONS ARE IN INCHES

TOLERANCES ON:

2 PL DECIMALS $\pm$ 3 PL DECIMALS $\pm$.005ANGLES $\pm$ FRACTIONS $\pm$

DRAWN

AV

05/30/01

CHECKED

DY

06/11/01

APPROVED

CT

06/11/01



Mini-Circuits®

13 Neptune Avenue
Brooklyn NY 11235

PL, hv, BK292/CD542/CD636, ADP/JPS, TB-48

SIZE

A

CODE IDENT

15542

DRAWING NO:

98-PL-035

REV:

C

FILE: 98PL035

SCALE:

10:1

SHEET:

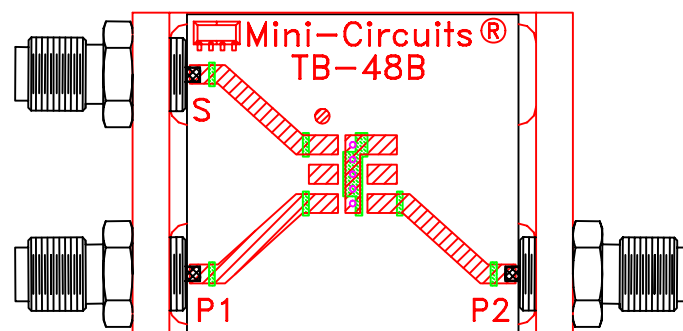
1 OF 1

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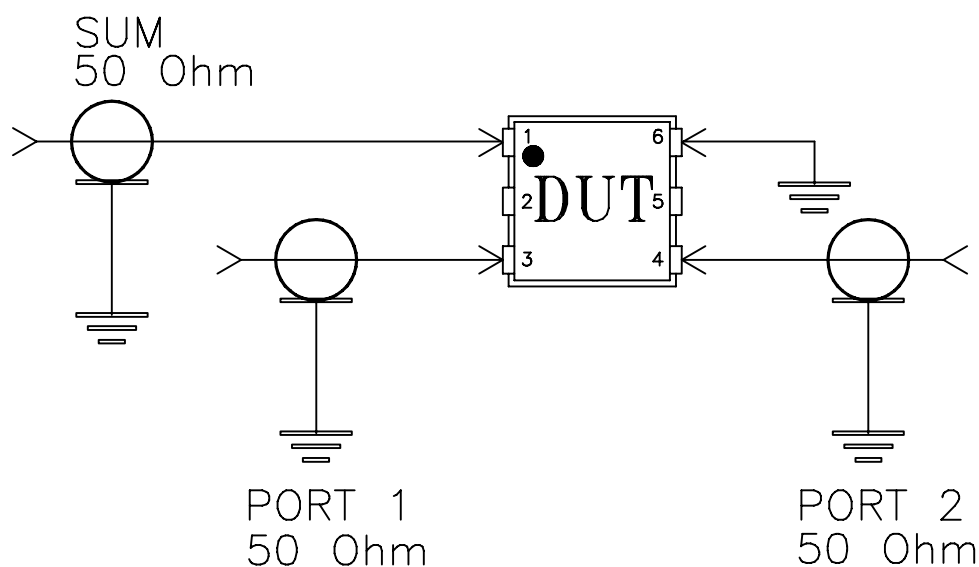
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ASHEETA1.DWG REV:A DATE:01/12/95

Evaluation Board and Circuit



TB-48+



Schematic Diagram

Notes:

1. SMA Female connectors.
2. PCB Material: Rogers R04350 or equivalent,
Dielectric Constant=3.5, Thickness=.030 inch.

 **Mini-Circuits®**



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Humidity	90 to 95% RH, 240 hours, 50°C	MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215