

2 Way-0° 75Ω

5 to 1000 MHz



CASE STYLE: CD636

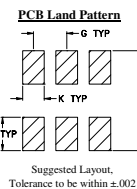
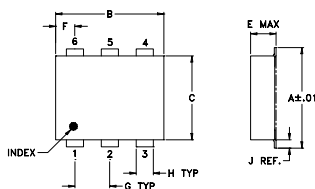
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

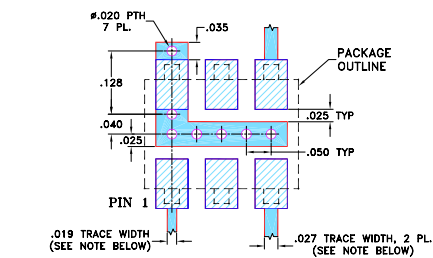
SUM PORT	1
PORT 1	3
PORT 2	4
GROUND	6
NOT USED	2,5

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	
.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-243
Suggested PCB Layout (PL-141)

- 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

- wideband, 5 to 1000 MHz
- low insertion loss, 0.3 dB typ.
- aqueous washable
- protected under U.S. Patent 6,133,525

Applications

- cellular
- VHF/UHF
- communication systems
- CATV

Electrical Specifications

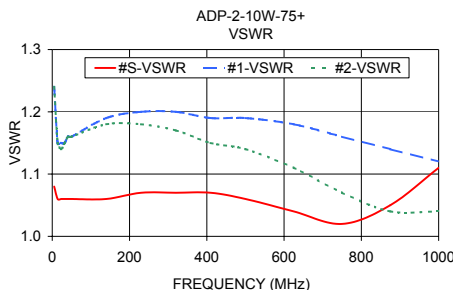
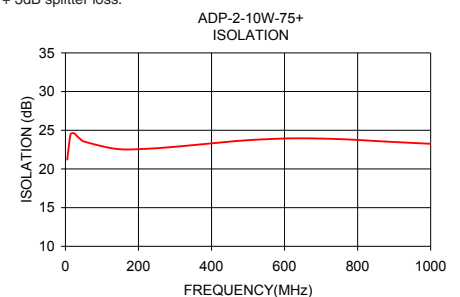
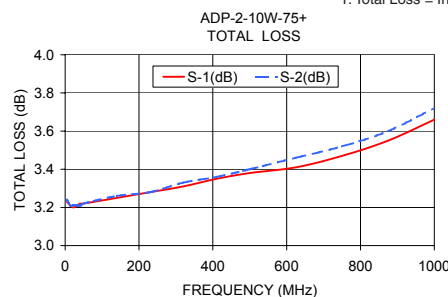
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-1000	24	14	23	18	24	18	0.2	0.6	0.3	0.9	0.5	1.1	1.0	3.0	5.0	0.1	0.2	0.3

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

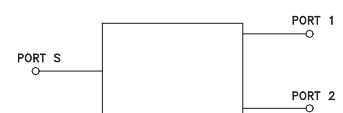
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
5.00	3.23	3.24	0.01	21.20	0.03	1.08	1.24	1.24
14.00	3.21	3.21	0.00	24.46	0.01	1.06	1.15	1.15
23.00	3.20	3.21	0.01	24.61	0.06	1.06	1.15	1.14
32.00	3.21	3.21	0.00	24.23	0.07	1.06	1.15	1.15
41.00	3.22	3.21	0.00	23.86	0.16	1.06	1.16	1.16
50.00	3.22	3.22	0.01	23.55	0.12	1.06	1.16	1.16
140.00	3.25	3.26	0.00	22.59	0.38	1.06	1.19	1.18
230.00	3.28	3.28	0.00	22.63	0.64	1.07	1.20	1.18
320.00	3.31	3.33	0.02	22.95	0.87	1.07	1.20	1.17
410.00	3.35	3.36	0.01	23.35	1.06	1.07	1.19	1.15
500.00	3.38	3.40	0.02	23.72	1.27	1.06	1.19	1.14
625.00	3.41	3.46	0.05	23.96	1.61	1.04	1.18	1.11
750.00	3.47	3.52	0.05	23.86	1.85	1.02	1.16	1.07
875.00	3.55	3.60	0.06	23.54	2.10	1.05	1.14	1.04
1000.00	3.66	3.72	0.06	23.25	2.21	1.11	1.12	1.04

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



electrical schematic



2 Way-0° Power Splitter/Combiner ADP-2-10W-75+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
5	3.22	3.22	0.00	0.01	19.38	1.07	1.29	1.29
10	3.20	3.20	0.00	0.00	22.20	1.06	1.20	1.20
15	3.20	3.21	0.01	0.03	23.09	1.06	1.17	1.17
20	3.20	3.21	0.01	0.06	23.38	1.06	1.16	1.16
25	3.21	3.21	0.00	0.05	23.38	1.06	1.16	1.16
50	3.23	3.23	0.00	0.13	22.88	1.05	1.17	1.17
75	3.24	3.25	0.01	0.21	22.60	1.06	1.18	1.17
100	3.26	3.26	0.00	0.23	22.50	1.06	1.18	1.18
125	3.27	3.28	0.01	0.31	22.39	1.06	1.18	1.18
150	3.29	3.29	0.00	0.44	22.45	1.06	1.18	1.18
175	3.30	3.31	0.01	0.45	22.44	1.07	1.19	1.18
200	3.31	3.31	0.00	0.52	22.52	1.07	1.19	1.17
250	3.33	3.33	0.00	0.62	22.72	1.08	1.19	1.17
300	3.34	3.36	0.02	0.76	22.94	1.08	1.20	1.16
350	3.37	3.39	0.02	0.87	23.18	1.08	1.20	1.16
400	3.38	3.41	0.03	0.98	23.47	1.09	1.20	1.15
450	3.40	3.44	0.04	1.09	23.68	1.09	1.20	1.14
500	3.43	3.47	0.04	1.23	23.87	1.08	1.20	1.14
550	3.45	3.50	0.05	1.39	24.05	1.07	1.20	1.12
600	3.48	3.52	0.04	1.47	24.17	1.06	1.19	1.11
650	3.50	3.55	0.05	1.58	24.34	1.05	1.18	1.10
700	3.54	3.58	0.04	1.66	24.36	1.03	1.17	1.09
750	3.57	3.61	0.04	1.72	24.06	1.03	1.16	1.08
800	3.60	3.65	0.05	1.69	23.71	1.05	1.15	1.06
850	3.62	3.69	0.07	1.73	23.27	1.07	1.13	1.06
900	3.65	3.74	0.09	1.71	22.70	1.10	1.11	1.05
925	3.67	3.75	0.08	1.85	22.36	1.11	1.11	1.05
950	3.69	3.79	0.10	1.74	22.09	1.13	1.10	1.06
975	3.71	3.80	0.09	1.85	21.51	1.14	1.09	1.06
1000	3.73	3.84	0.11	1.78	21.34	1.16	1.08	1.06
1025	3.76	3.86	0.10	1.74	20.97	1.17	1.08	1.07
1050	3.79	3.89	0.10	1.69	20.48	1.19	1.07	1.08
1075	3.82	3.91	0.09	1.67	20.51	1.20	1.06	1.08
1100	3.84	3.95	0.11	1.66	19.96	1.22	1.06	1.09
1150	3.90	4.00	0.10	1.57	19.66	1.24	1.05	1.10
1200	3.96	4.06	0.10	1.49	19.54	1.26	1.04	1.11
1250	4.04	4.12	0.08	1.42	19.78	1.27	1.04	1.12
1300	4.10	4.16	0.06	1.38	20.20	1.29	1.04	1.13
1350	4.17	4.20	0.03	1.32	20.78	1.29	1.04	1.14
1400	4.25	4.24	0.01	1.25	21.80	1.28	1.05	1.15
1450	4.32	4.28	0.04	1.28	23.19	1.27	1.06	1.16
1500	4.41	4.34	0.07	1.35	25.10	1.25	1.07	1.16
1600	4.66	4.56	0.10	1.67	27.90	1.18	1.12	1.18
1700	5.05	4.98	0.07	2.13	22.83	1.09	1.18	1.22
1800	5.61	5.66	0.05	2.87	18.63	1.08	1.27	1.30
1900	6.38	6.56	0.18	3.78	16.05	1.20	1.40	1.41
2000	7.50	7.90	0.40	4.37	13.11	1.38	1.57	1.58

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-0° Power Splitter/Combiner ADP-2-10W-75+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -40°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
5	3.25	3.26	0.01	0.01	19.23	1.09	1.32	1.32
10	3.19	3.19	0.00	0.01	23.66	1.06	1.18	1.17
15	3.17	3.17	0.00	0.04	25.54	1.05	1.13	1.12
20	3.16	3.16	0.00	0.07	26.06	1.04	1.12	1.10
25	3.16	3.16	0.00	0.07	26.07	1.04	1.11	1.09
50	3.17	3.17	0.00	0.20	25.52	1.02	1.11	1.08
75	3.18	3.19	0.01	0.33	25.15	1.02	1.11	1.09
100	3.20	3.19	0.01	0.42	25.00	1.04	1.11	1.11
125	3.20	3.20	0.00	0.55	24.89	1.04	1.11	1.11
150	3.21	3.20	0.01	0.72	24.99	1.04	1.11	1.10
175	3.22	3.22	0.00	0.80	24.99	1.03	1.11	1.10
200	3.23	3.22	0.01	0.95	25.04	1.04	1.12	1.11
250	3.24	3.23	0.01	1.17	25.26	1.07	1.13	1.12
300	3.25	3.25	0.00	1.43	25.43	1.06	1.15	1.12
350	3.27	3.26	0.01	1.67	25.61	1.07	1.16	1.14
400	3.28	3.27	0.01	1.91	25.86	1.08	1.18	1.13
450	3.29	3.29	0.00	2.19	26.00	1.10	1.19	1.14
500	3.31	3.31	0.00	2.45	26.14	1.10	1.19	1.14
550	3.33	3.33	0.00	2.74	26.25	1.08	1.19	1.14
600	3.35	3.34	0.01	2.97	26.15	1.08	1.19	1.14
650	3.37	3.36	0.01	3.19	26.09	1.08	1.19	1.12
700	3.40	3.38	0.02	3.41	25.76	1.06	1.18	1.10
750	3.42	3.41	0.01	3.60	25.01	1.06	1.17	1.11
800	3.45	3.43	0.02	3.74	24.15	1.08	1.15	1.11
850	3.46	3.47	0.01	3.93	23.24	1.10	1.13	1.11
900	3.49	3.51	0.02	4.13	22.32	1.14	1.11	1.12
925	3.51	3.51	0.00	4.33	21.95	1.17	1.10	1.13
950	3.52	3.55	0.03	4.34	21.53	1.19	1.09	1.13
975	3.55	3.55	0.00	4.50	20.93	1.21	1.08	1.13
1000	3.56	3.59	0.03	4.53	20.70	1.22	1.07	1.13
1025	3.59	3.60	0.01	4.53	20.26	1.24	1.06	1.13
1050	3.61	3.63	0.02	4.62	19.79	1.27	1.05	1.13
1075	3.63	3.65	0.02	4.63	19.75	1.29	1.04	1.13
1100	3.66	3.69	0.03	4.73	19.23	1.30	1.04	1.14
1150	3.71	3.74	0.03	4.81	18.90	1.32	1.03	1.14
1200	3.77	3.78	0.01	4.90	18.81	1.32	1.03	1.13
1250	3.83	3.82	0.01	4.98	19.15	1.31	1.02	1.12
1300	3.88	3.85	0.03	5.10	19.66	1.29	1.02	1.11
1350	3.93	3.87	0.06	5.20	20.42	1.26	1.03	1.10
1400	3.97	3.88	0.09	5.35	21.70	1.20	1.05	1.11
1450	4.02	3.90	0.12	5.59	23.35	1.16	1.08	1.16
1500	4.10	3.94	0.16	5.79	25.45	1.15	1.11	1.24
1600	4.31	4.14	0.17	6.36	25.95	1.13	1.18	1.31
1700	4.69	4.56	0.14	7.07	20.63	1.13	1.26	1.46
1800	5.20	5.20	0.00	8.01	17.01	1.07	1.33	1.50
1900	5.88	6.02	0.14	9.50	14.90	1.25	1.39	1.58
2000	6.84	7.15	0.31	10.19	12.41	1.77	1.52	1.47

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +85°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
5	3.29	3.30	0.01	0.00	18.49	1.08	1.32	1.32
10	3.28	3.29	0.01	0.01	20.55	1.07	1.25	1.25
15	3.28	3.30	0.02	0.02	21.15	1.08	1.23	1.23
20	3.29	3.30	0.01	0.06	21.28	1.08	1.22	1.23
25	3.29	3.30	0.01	0.05	21.24	1.08	1.22	1.24
50	3.31	3.33	0.02	0.10	20.84	1.10	1.23	1.27
75	3.33	3.35	0.02	0.16	20.65	1.10	1.24	1.27
100	3.36	3.37	0.01	0.20	20.62	1.08	1.25	1.24
125	3.37	3.39	0.02	0.26	20.56	1.07	1.25	1.23
150	3.38	3.40	0.02	0.42	20.62	1.08	1.26	1.24
175	3.39	3.42	0.03	0.40	20.63	1.10	1.25	1.25
200	3.41	3.43	0.02	0.47	20.76	1.11	1.25	1.24
250	3.43	3.46	0.03	0.55	21.01	1.09	1.24	1.20
300	3.45	3.50	0.05	0.65	21.21	1.09	1.23	1.20
350	3.48	3.53	0.05	0.72	21.45	1.09	1.22	1.17
400	3.50	3.56	0.06	0.80	21.68	1.08	1.21	1.16
450	3.52	3.61	0.09	0.88	21.90	1.08	1.21	1.15
500	3.55	3.65	0.10	0.96	22.09	1.06	1.20	1.13
550	3.58	3.68	0.10	1.06	22.33	1.05	1.20	1.12
600	3.62	3.72	0.10	1.10	22.56	1.04	1.19	1.11
650	3.64	3.76	0.12	1.14	22.83	1.02	1.19	1.10
700	3.69	3.80	0.12	1.18	23.10	1.01	1.18	1.09
750	3.72	3.84	0.12	1.19	23.15	1.01	1.18	1.08
800	3.76	3.88	0.12	1.11	23.13	1.02	1.17	1.07
850	3.80	3.93	0.13	1.08	23.16	1.04	1.17	1.06
900	3.84	3.98	0.14	0.99	22.92	1.07	1.16	1.05
925	3.85	4.01	0.16	1.09	22.67	1.08	1.15	1.04
950	3.88	4.04	0.16	0.93	22.56	1.09	1.14	1.04
975	3.91	4.07	0.16	1.06	22.10	1.09	1.14	1.04
1000	3.93	4.10	0.17	0.90	22.01	1.11	1.13	1.04
1025	3.96	4.13	0.17	0.86	21.72	1.13	1.12	1.05
1050	3.98	4.16	0.18	0.75	21.26	1.15	1.11	1.05
1075	4.02	4.19	0.17	0.74	21.35	1.16	1.10	1.06
1100	4.05	4.22	0.17	0.66	20.83	1.17	1.09	1.07
1150	4.11	4.29	0.18	0.55	20.60	1.22	1.08	1.08
1200	4.18	4.35	0.17	0.41	20.48	1.24	1.06	1.10
1250	4.26	4.41	0.15	0.30	20.71	1.26	1.05	1.12
1300	4.34	4.47	0.13	0.25	21.12	1.29	1.04	1.13
1350	4.43	4.52	0.09	0.14	21.63	1.30	1.03	1.14
1400	4.52	4.58	0.06	0.06	22.61	1.30	1.02	1.14
1450	4.61	4.64	0.03	0.09	24.03	1.30	1.02	1.13
1500	4.71	4.72	0.01	0.12	26.07	1.28	1.03	1.13
1600	4.99	4.97	0.02	0.35	30.33	1.21	1.08	1.10
1700	5.38	5.38	0.00	0.67	24.42	1.10	1.16	1.11
1800	5.94	6.04	0.10	1.17	19.57	1.12	1.28	1.21
1900	6.71	6.94	0.23	1.80	16.60	1.20	1.43	1.38
2000	7.79	8.20	0.41	2.28	13.70	1.24	1.64	1.61

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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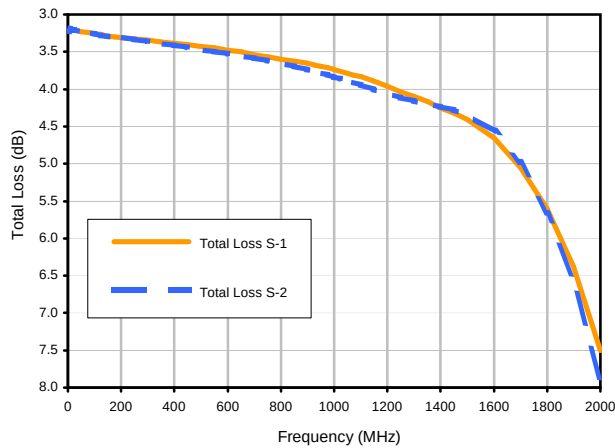


2 Way-0° Power Splitter/Combiner

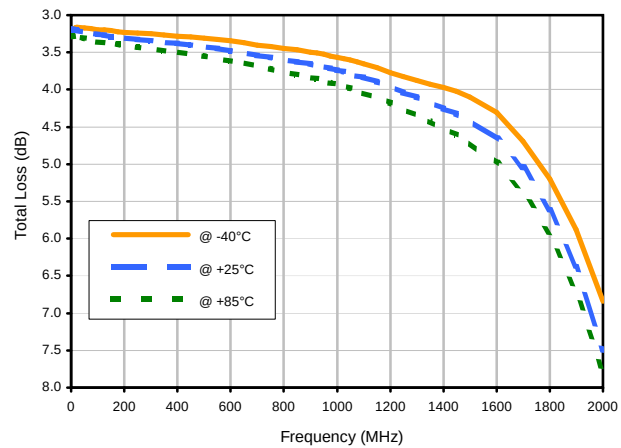
ADP-2-10W-75+

Typical Performance Curves

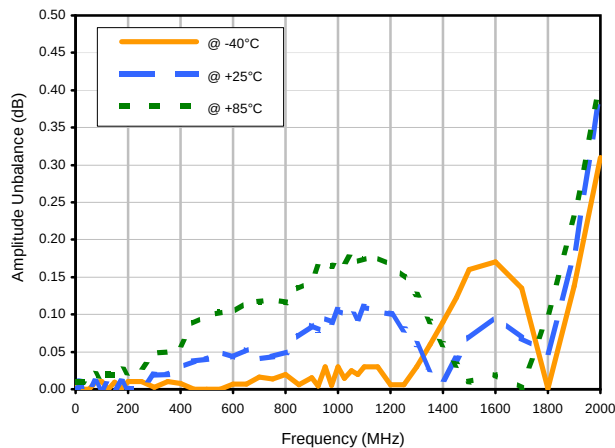
Total Loss



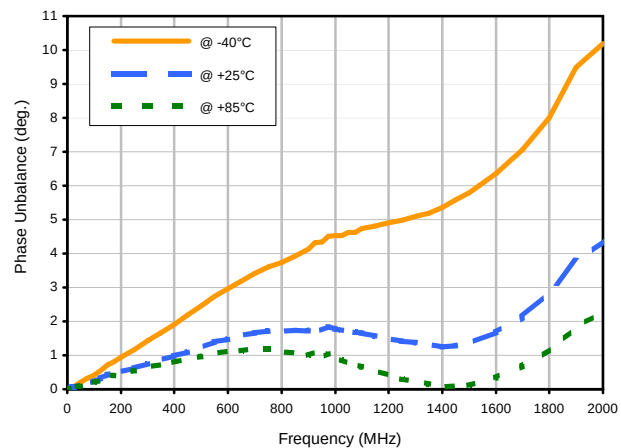
Total Loss S-1 vs. TEMPERATURE



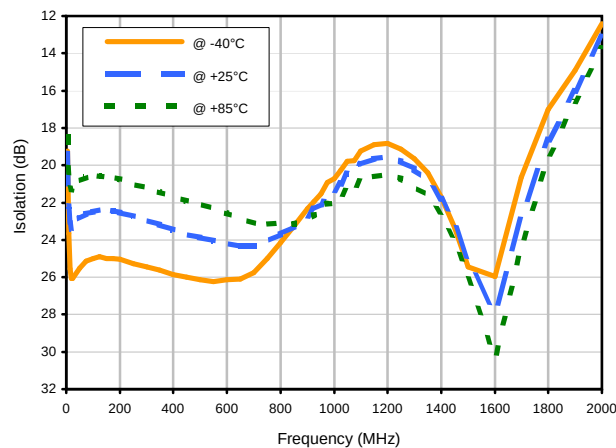
Amplitude Unbalance vs. TEMPERATURE



Phase Unbalance vs. TEMPERATURE



Isolation 1-2 vs. TEMPERATURE



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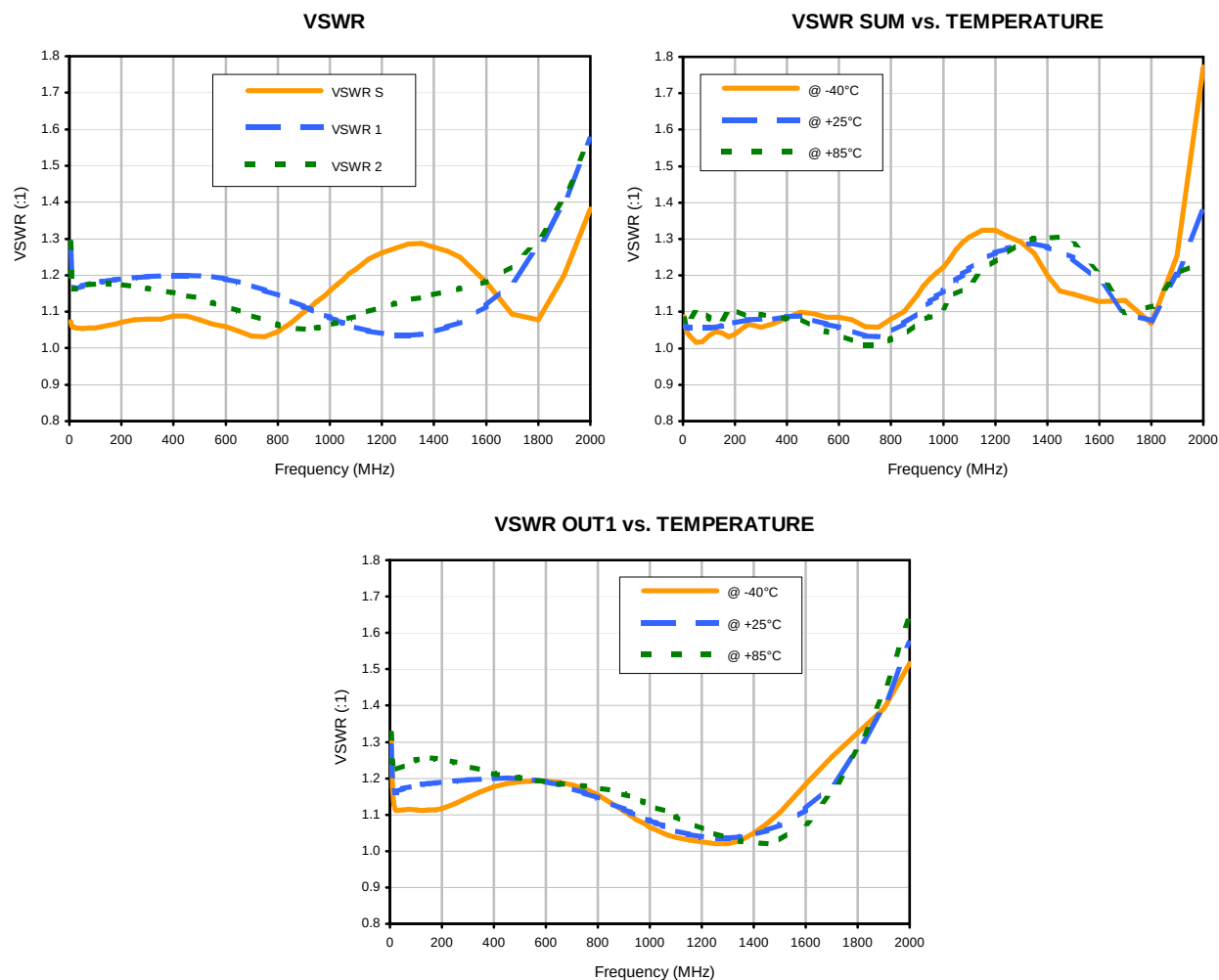


REV. X2
ADP-2-10W-75+
100623
Page 1 of 2

2 Way-0° Power Splitter/Combiner

ADP-2-10W-75+

Typical Performance Curves



REV. X2
ADP-2-10W-75+
100623
Page 2 of 2



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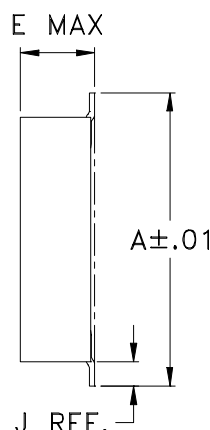
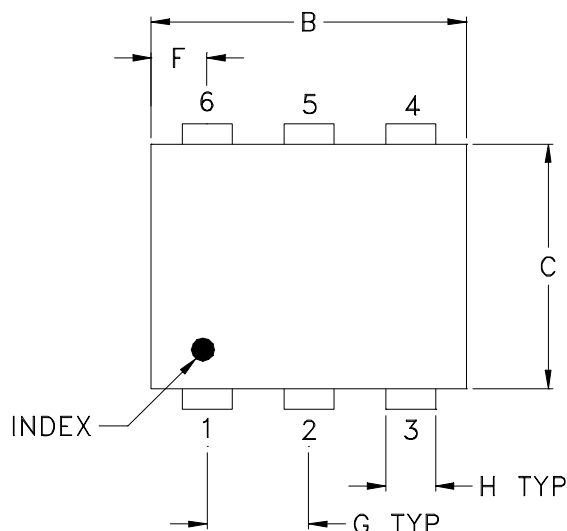
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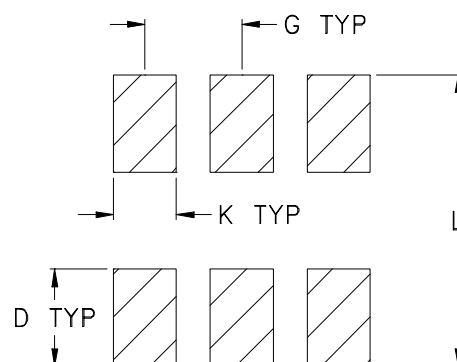


CD541
CD542
CD636
CD637

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.



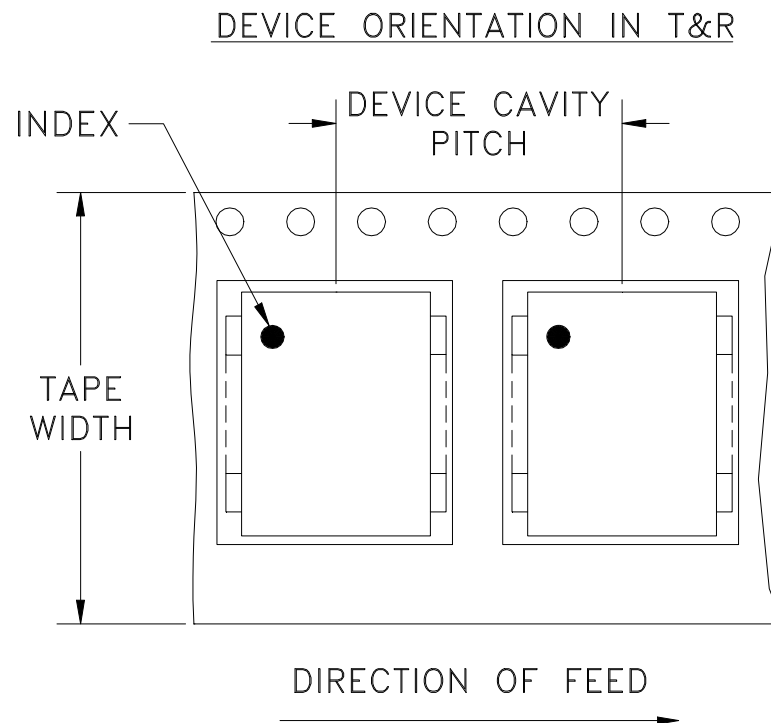
INTERNET <http://www.minicircuits.com>

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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.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf

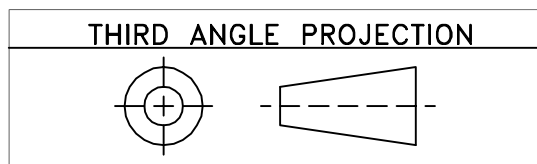


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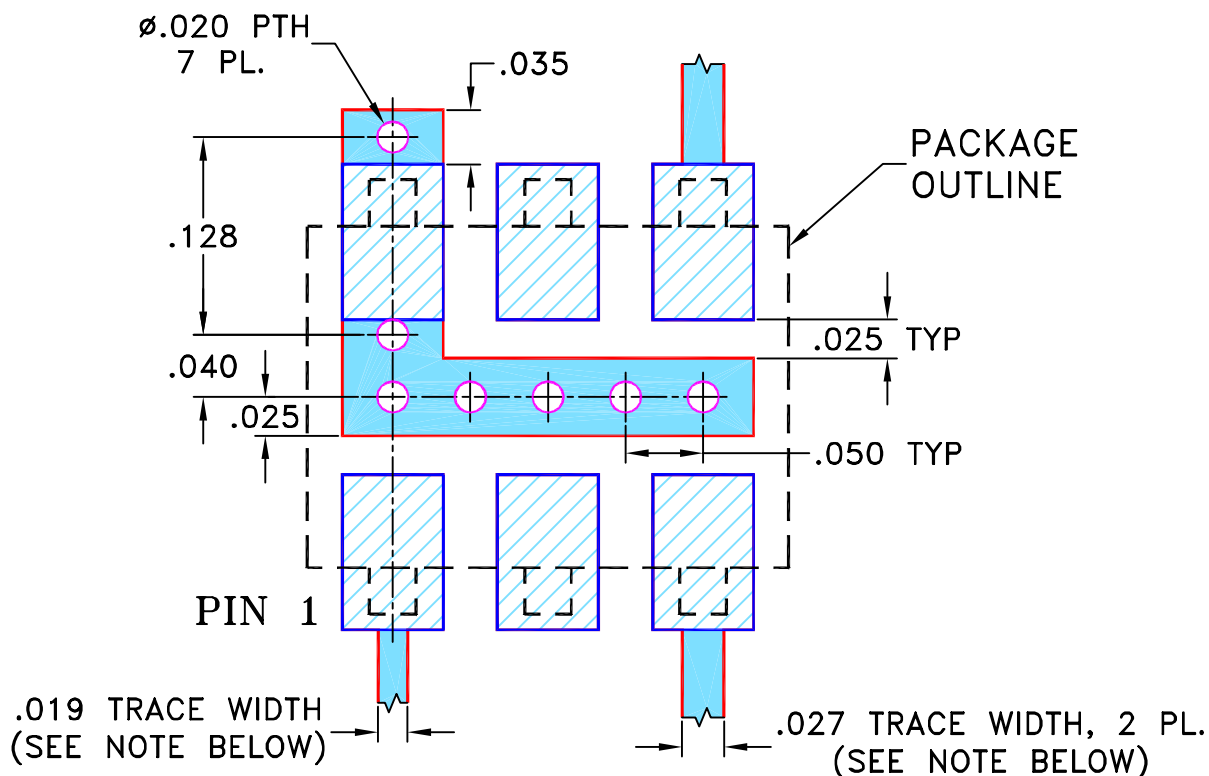
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REVISIONS					
REV OR	ECN No.	DESCRIPTION	DATE	DR	AUTH
	M88803	NEW RELEASE	10/20/03	GF	HY
A	M102713	ADDED "...WITH SMOBC"	01/17/06	MMG	IL

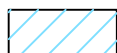
**SUGGESTED MOUNTING CONFIGURATION
FOR CD542 CASE STYLE, "hv" PIN CONNECTION**



- 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 $\pm$.005 ANGLES $\pm$ FRACTIONS $\pm$	DRAWN	GF	09/18/03
	CHECKED	IL	10/20/03
	APPROVED	HY	10/20/03



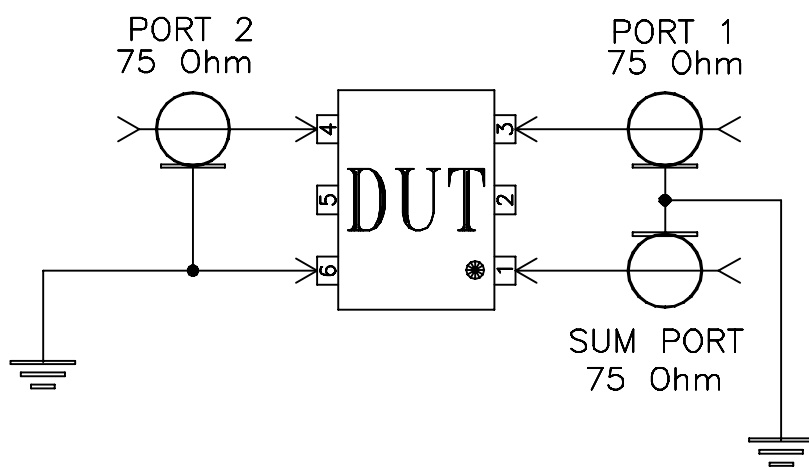
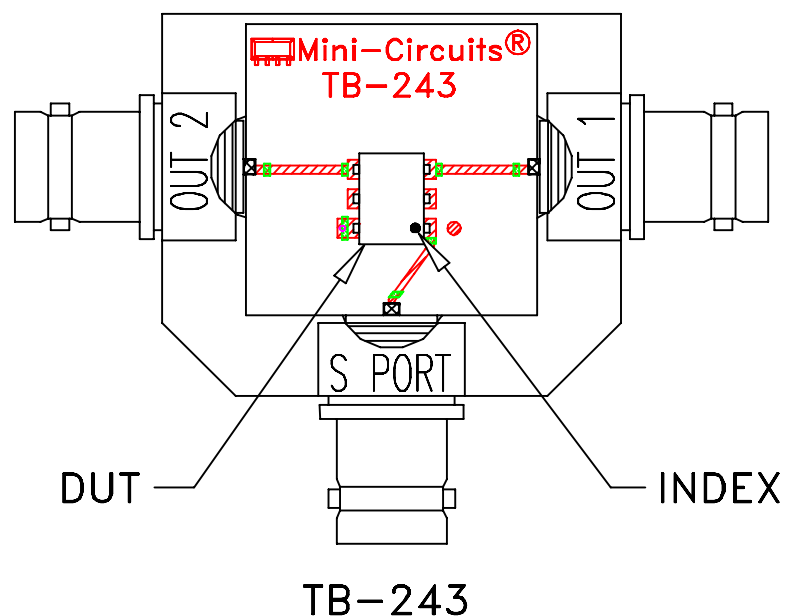
Mini-Circuits® 13 Neptune Avenue
Brooklyn NY 11235

PL, hv, 75, CD542, ADP, TB-243

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SIZE	CODE IDENT	DRAWING NO:	REV:
A	15542	98-PL-141	A
FILE:	98PL141	SCALE:	8:1
		SHEET:	1 OF 1

Evaluation Board and Circuit



Schematic Diagram

Notes:

1. BNC 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