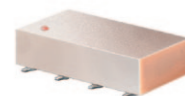


Surface Mount

2 Way-90° 50Ω 9 to 11 MHz



Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.

Permanent damage may occur if any of these limits are exceeded.

SUM PORT	1
PORT 1 (+90°)	2
PORT 2 (0°)	5
GROUND	3,4,7,8
50 OHM TERM EXTERNAL	6

PCB Land Pattern

Suggested Layout,
Tolerance to be within ± 0.002

A	B	C	D	E	F	G
.75	.38	.20	.010	.050	.020	.200
19.05	9.65	5.08	0.25	1.27	0.51	5.08
H	J	K	M	N	P	wt
.075	.600	.450	.470	.100	.150	grams
1.91	15.24	11.43	11.94	2.54	3.81	1.6

NOTES:

- 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.
- 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

- low insertion loss, 0.15 dB typ.
- high isolation, 31 dB typ.

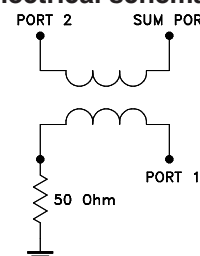
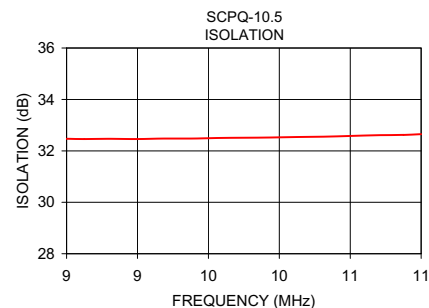
- HF
- signal processing
- balanced amplifier
- modulators

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
$f_c - f_u$	Typ. Min.	Typ. Max.	Max.	Max.
9-11	31 20	0.15 0.7	3	1.2

Frequency (MHz)	Total Loss¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
9.00	3.47	2.68	0.79	32.47	90.02	1.03	1.03	1.03
9.10	3.42	2.72	0.70	32.46	90.02	1.03	1.03	1.03
9.25	3.34	2.79	0.56	32.47	90.02	1.03	1.03	1.03
9.40	3.27	2.85	0.42	32.46	90.02	1.03	1.03	1.03
9.55	3.20	2.92	0.28	32.48	90.01	1.03	1.03	1.03
9.70	3.14	2.99	0.15	32.48	90.02	1.03	1.03	1.03
9.85	3.07	3.05	0.02	32.50	90.02	1.03	1.03	1.04
10.00	3.01	3.12	0.11	32.51	90.01	1.03	1.03	1.04
10.15	2.95	3.19	0.23	32.52	90.01	1.03	1.03	1.04
10.30	2.89	3.25	0.36	32.54	90.02	1.03	1.03	1.04
10.45	2.83	3.32	0.48	32.55	90.02	1.03	1.03	1.04
10.60	2.78	3.38	0.60	32.58	90.02	1.03	1.03	1.04
10.75	2.72	3.45	0.72	32.61	90.02	1.03	1.03	1.04
10.90	2.67	3.51	0.84	32.62	90.02	1.03	1.03	1.04
11.00	2.64	3.55	0.92	32.65	90.03	1.03	1.03	1.04

The graph shows the total loss for two different configurations, S-1 and S-2, across a frequency range from 9 MHz to 11 MHz. The y-axis represents the total loss in dB, ranging from 2.0 to 4.5. The x-axis represents the frequency in MHz, with labels at 9, 9, 10, 10, 11, and 11. S-1 is represented by a solid red line, and S-2 is represented by a dashed blue line. S-1 starts at approximately 3.5 dB at 9 MHz and decreases to about 2.6 dB at 11 MHz. S-2 starts at approximately 2.7 dB at 9 MHz and increases to about 3.5 dB at 11 MHz. The two lines intersect at a frequency of 10 MHz, where the total loss is approximately 3.0 dB.

Frequency (MHz)	S-1 (dB)	S-2 (dB)
9	3.5	2.7
10	3.0	3.0
11	2.6	3.5



For detailed performance specs
& shopping online see web site

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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuits' testable established performance and test instructions. 3. The parts covered by this specification sheet 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/MC/Store/terms_iso.

2 Way-90° Power Splitter/Combiner

SCPQ-10.5+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
5.0	7.02	1.03	5.99	0.28	28.36	1.05	1.06	1.06
5.5	6.38	1.21	5.17	0.29	27.90	1.06	1.06	1.06
6.0	5.82	1.40	4.43	0.29	27.52	1.06	1.06	1.06
6.5	5.33	1.59	3.74	0.26	27.20	1.06	1.07	1.07
7.0	4.90	1.80	3.10	0.27	27.01	1.07	1.07	1.07
7.3	4.70	1.90	2.80	0.25	26.91	1.07	1.07	1.07
7.5	4.51	2.00	2.51	0.24	26.83	1.07	1.07	1.07
7.8	4.33	2.10	2.23	0.24	26.77	1.07	1.07	1.07
8.0	4.16	2.20	1.96	0.24	26.72	1.07	1.07	1.07
8.3	4.01	2.31	1.69	0.23	26.68	1.07	1.07	1.07
8.5	3.85	2.42	1.44	0.21	26.65	1.07	1.07	1.08
8.8	3.72	2.52	1.20	0.19	26.63	1.07	1.07	1.08
9.0	3.58	2.62	0.95	0.19	26.61	1.07	1.08	1.08
9.3	3.45	2.74	0.72	0.18	26.61	1.07	1.08	1.08
9.5	3.33	2.84	0.49	0.18	26.60	1.07	1.08	1.08
9.8	3.22	2.95	0.27	0.16	26.62	1.07	1.08	1.08
10.0	3.11	3.06	0.05	0.17	26.63	1.07	1.08	1.08
10.3	3.00	3.16	0.16	0.17	26.65	1.07	1.08	1.08
10.5	2.90	3.26	0.36	0.12	26.68	1.07	1.08	1.08
10.8	2.81	3.37	0.56	0.10	26.71	1.07	1.08	1.08
11.0	2.72	3.48	0.76	0.10	26.76	1.07	1.08	1.08
11.3	2.64	3.58	0.95	0.10	26.78	1.07	1.08	1.08
11.5	2.56	3.68	1.13	0.09	26.85	1.07	1.08	1.08
11.8	2.47	3.79	1.32	0.06	26.88	1.08	1.08	1.08
12.0	2.39	3.89	1.50	0.06	26.95	1.08	1.08	1.08
12.3	2.33	4.00	1.67	0.05	27.00	1.08	1.08	1.08
12.5	2.26	4.10	1.84	0.05	27.06	1.08	1.08	1.08
12.8	2.19	4.20	2.01	0.02	27.12	1.08	1.08	1.08
13.0	2.13	4.30	2.18	0.00	27.20	1.08	1.08	1.08
13.3	2.07	4.41	2.34	0.01	27.28	1.08	1.08	1.08
13.5	2.01	4.50	2.48	0.01	27.34	1.08	1.08	1.08
13.8	1.96	4.60	2.65	0.02	27.42	1.08	1.08	1.09
14.0	1.90	4.70	2.80	0.03	27.50	1.08	1.08	1.09
14.3	1.85	4.80	2.94	0.03	27.58	1.08	1.08	1.09
14.5	1.81	4.90	3.09	0.05	27.66	1.08	1.08	1.09
14.8	1.76	4.99	3.23	0.07	27.75	1.08	1.08	1.09
15.0	1.71	5.09	3.37	0.08	27.82	1.08	1.08	1.09
15.5	1.63	5.28	3.65	0.14	28.01	1.08	1.08	1.09
16.0	1.56	5.47	3.91	0.15	28.19	1.08	1.08	1.09
16.5	1.48	5.65	4.17	0.17	28.37	1.08	1.08	1.09
17.0	1.42	5.83	4.41	0.19	28.58	1.08	1.08	1.09
17.5	1.36	6.01	4.65	0.23	28.76	1.08	1.08	1.09
18.0	1.29	6.18	4.89	0.25	28.95	1.08	1.08	1.09
18.5	1.24	6.35	5.11	0.29	29.17	1.08	1.08	1.09
19.0	1.19	6.52	5.33	0.31	29.34	1.08	1.08	1.09
19.5	1.14	6.69	5.54	0.34	29.54	1.08	1.08	1.09
20.0	1.10	6.85	5.75	0.36	29.73	1.08	1.08	1.09

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-90° Power Splitter/Combiner

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Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
5.0	7.02	1.03	5.99	0.32	28.27	1.06	1.06	1.06
5.5	6.38	1.21	5.17	0.35	27.81	1.06	1.07	1.06
6.0	5.82	1.40	4.43	0.33	27.44	1.06	1.07	1.07
6.5	5.33	1.59	3.74	0.31	27.13	1.06	1.07	1.07
7.0	4.89	1.79	3.10	0.31	26.94	1.07	1.07	1.07
7.3	4.69	1.89	2.80	0.31	26.84	1.07	1.07	1.07
7.5	4.51	1.99	2.52	0.32	26.76	1.07	1.07	1.07
7.8	4.33	2.10	2.23	0.30	26.70	1.07	1.07	1.07
8.0	4.16	2.20	1.96	0.29	26.65	1.07	1.07	1.08
8.3	4.01	2.30	1.70	0.29	26.62	1.07	1.08	1.08
8.5	3.85	2.41	1.44	0.29	26.59	1.07	1.08	1.08
8.8	3.71	2.52	1.19	0.27	26.57	1.07	1.08	1.08
9.0	3.58	2.62	0.95	0.25	26.55	1.07	1.08	1.08
9.3	3.45	2.73	0.72	0.25	26.55	1.07	1.08	1.08
9.5	3.33	2.84	0.49	0.26	26.55	1.07	1.08	1.08
9.8	3.21	2.94	0.26	0.24	26.56	1.07	1.08	1.08
10.0	3.10	3.05	0.05	0.24	26.58	1.07	1.08	1.08
10.3	3.00	3.15	0.15	0.25	26.59	1.07	1.08	1.08
10.5	2.90	3.26	0.36	0.21	26.62	1.07	1.08	1.08
10.8	2.80	3.36	0.56	0.20	26.65	1.07	1.08	1.08
11.0	2.71	3.47	0.76	0.19	26.70	1.07	1.08	1.08
11.3	2.62	3.57	0.95	0.20	26.73	1.07	1.08	1.08
11.5	2.55	3.68	1.13	0.18	26.80	1.07	1.08	1.08
11.8	2.46	3.78	1.32	0.16	26.84	1.07	1.08	1.08
12.0	2.39	3.89	1.49	0.16	26.89	1.07	1.08	1.08
12.3	2.32	3.99	1.67	0.15	26.96	1.07	1.07	1.08
12.5	2.25	4.09	1.84	0.14	27.00	1.07	1.07	1.08
12.8	2.18	4.19	2.01	0.13	27.07	1.07	1.07	1.09
13.0	2.13	4.30	2.17	0.10	27.15	1.07	1.07	1.09
13.3	2.06	4.40	2.34	0.12	27.24	1.07	1.07	1.09
13.5	2.00	4.50	2.49	0.11	27.30	1.07	1.07	1.09
13.8	1.95	4.59	2.65	0.09	27.38	1.07	1.07	1.09
14.0	1.89	4.69	2.80	0.09	27.46	1.07	1.07	1.09
14.3	1.85	4.80	2.95	0.09	27.54	1.07	1.07	1.09
14.5	1.80	4.89	3.09	0.06	27.63	1.07	1.07	1.09
14.8	1.75	4.99	3.24	0.05	27.72	1.07	1.07	1.09
15.0	1.71	5.08	3.37	0.05	27.79	1.07	1.07	1.09
15.5	1.62	5.27	3.65	0.02	27.98	1.07	1.07	1.09
16.0	1.55	5.46	3.91	0.01	28.16	1.07	1.07	1.09
16.5	1.47	5.64	4.17	0.03	28.35	1.07	1.07	1.09
17.0	1.41	5.83	4.42	0.03	28.56	1.07	1.07	1.09
17.5	1.35	6.00	4.66	0.08	28.75	1.07	1.07	1.09
18.0	1.28	6.18	4.89	0.09	28.94	1.07	1.07	1.09
18.5	1.23	6.35	5.12	0.12	29.16	1.07	1.07	1.09
19.0	1.18	6.51	5.33	0.16	29.36	1.07	1.06	1.09
19.5	1.13	6.68	5.55	0.18	29.56	1.07	1.06	1.09
20.0	1.09	6.84	5.75	0.21	29.76	1.07	1.06	1.09

¹ Total 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. From 90° (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
5.0	7.03	1.01	6.02	0.11	28.57	1.05	1.05	1.05
5.5	6.39	1.19	5.19	0.12	28.10	1.05	1.06	1.06
6.0	5.83	1.39	4.45	0.12	27.71	1.06	1.06	1.06
6.5	5.35	1.58	3.77	0.10	27.39	1.06	1.06	1.06
7.0	4.91	1.78	3.13	0.10	27.20	1.06	1.07	1.07
7.3	4.71	1.88	2.83	0.08	27.09	1.07	1.07	1.07
7.5	4.53	1.99	2.54	0.09	27.02	1.07	1.07	1.07
7.8	4.35	2.09	2.26	0.07	26.96	1.07	1.07	1.07
8.0	4.18	2.19	1.99	0.05	26.90	1.07	1.07	1.07
8.3	4.02	2.30	1.72	0.06	26.86	1.07	1.07	1.07
8.5	3.87	2.40	1.47	0.05	26.83	1.07	1.07	1.07
8.8	3.73	2.51	1.22	0.02	26.82	1.07	1.07	1.07
9.0	3.60	2.62	0.98	0.01	26.79	1.07	1.07	1.07
9.3	3.47	2.72	0.74	0.01	26.79	1.07	1.07	1.07
9.5	3.35	2.83	0.52	0.00	26.79	1.07	1.08	1.08
9.8	3.23	2.94	0.29	0.02	26.79	1.07	1.08	1.08
10.0	3.12	3.04	0.08	0.01	26.81	1.07	1.08	1.08
10.3	3.02	3.15	0.13	0.01	26.82	1.07	1.08	1.08
10.5	2.92	3.25	0.34	0.07	26.84	1.07	1.08	1.08
10.8	2.82	3.36	0.54	0.08	26.88	1.08	1.08	1.08
11.0	2.74	3.46	0.72	0.08	26.92	1.08	1.08	1.08
11.3	2.65	3.57	0.93	0.10	26.94	1.08	1.08	1.08
11.5	2.57	3.68	1.11	0.10	27.01	1.08	1.08	1.08
11.8	2.49	3.78	1.29	0.12	27.05	1.08	1.08	1.08
12.0	2.41	3.88	1.47	0.14	27.11	1.08	1.08	1.08
12.3	2.34	3.99	1.65	0.15	27.16	1.08	1.08	1.08
12.5	2.28	4.09	1.81	0.15	27.22	1.08	1.08	1.08
12.8	2.21	4.19	1.97	0.16	27.28	1.08	1.08	1.08
13.0	2.15	4.29	2.15	0.20	27.36	1.08	1.08	1.08
13.3	2.09	4.40	2.31	0.19	27.43	1.08	1.08	1.08
13.5	2.03	4.49	2.46	0.21	27.50	1.08	1.08	1.08
13.8	1.98	4.59	2.61	0.21	27.57	1.08	1.08	1.08
14.0	1.92	4.69	2.77	0.25	27.65	1.08	1.08	1.08
14.3	1.87	4.79	2.91	0.24	27.73	1.08	1.08	1.08
14.5	1.82	4.89	3.07	0.26	27.80	1.08	1.08	1.08
14.8	1.78	4.98	3.20	0.29	27.90	1.08	1.09	1.08
15.0	1.73	5.08	3.35	0.29	27.96	1.08	1.09	1.08
15.5	1.65	5.27	3.62	0.36	28.14	1.08	1.09	1.09
16.0	1.57	5.46	3.89	0.36	28.31	1.08	1.09	1.09
16.5	1.50	5.64	4.14	0.38	28.50	1.08	1.09	1.09
17.0	1.43	5.82	4.39	0.41	28.69	1.08	1.09	1.09
17.5	1.37	6.00	4.63	0.46	28.88	1.08	1.09	1.09
18.0	1.31	6.17	4.86	0.48	29.05	1.08	1.09	1.09
18.5	1.26	6.34	5.08	0.53	29.25	1.08	1.09	1.09
19.0	1.21	6.51	5.30	0.56	29.43	1.08	1.09	1.09
19.5	1.16	6.68	5.52	0.58	29.62	1.08	1.09	1.09
20.0	1.12	6.84	5.72	0.62	29.81	1.08	1.09	1.09

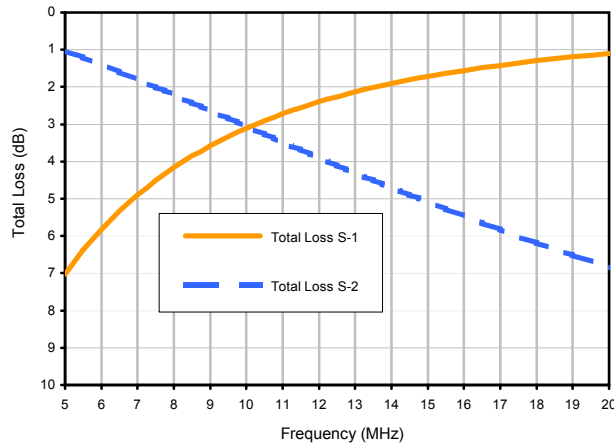
¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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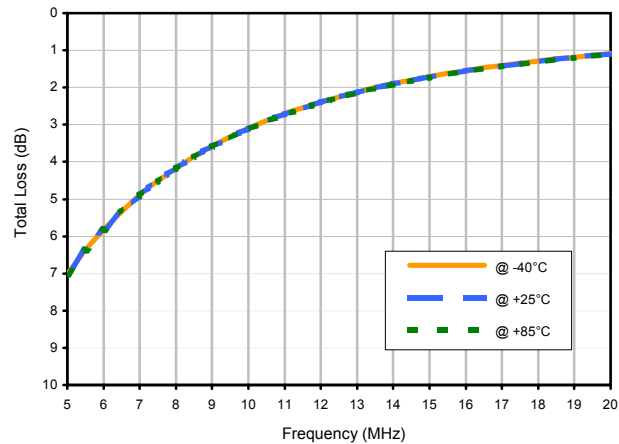
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Typical Performance Curves

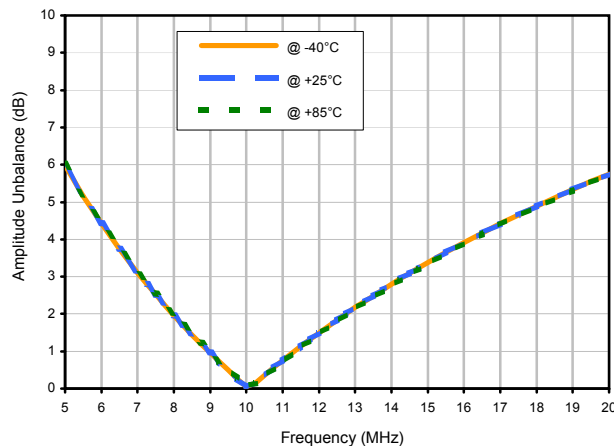
Total Loss



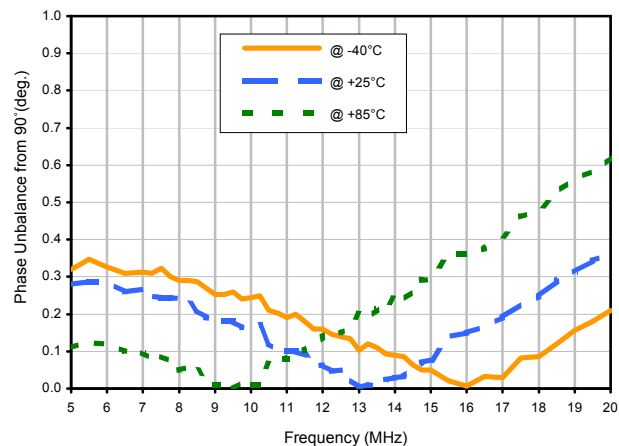
Total Loss S-1 vs. TEMPERATURE



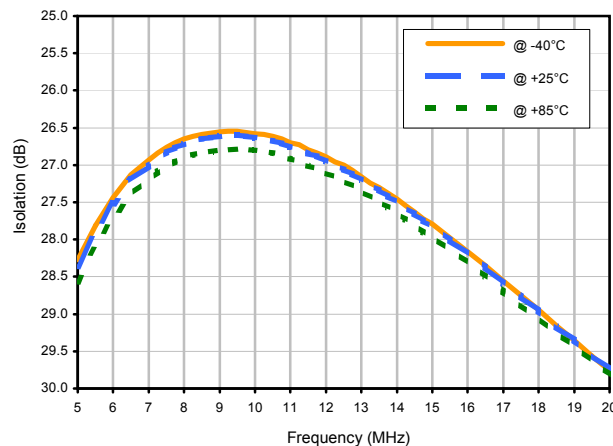
Amplitude Unbalance vs. TEMPERATURE



Phase Unbalance vs. TEMPERATURE



Isolation 1-2 vs. TEMPERATURE



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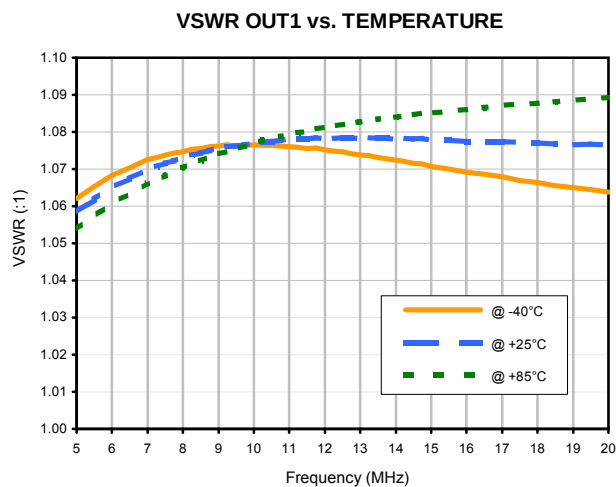
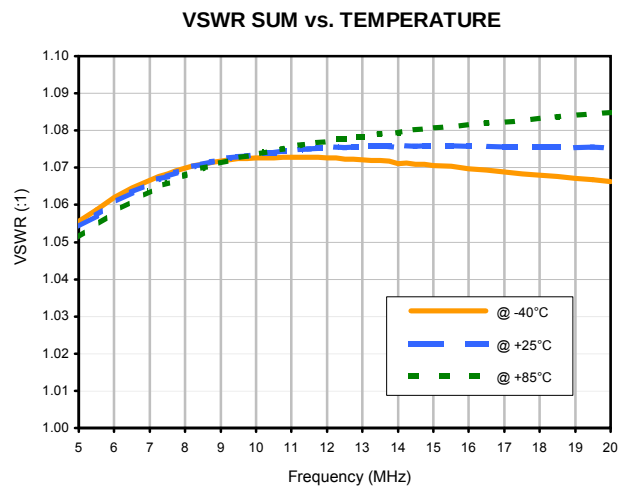
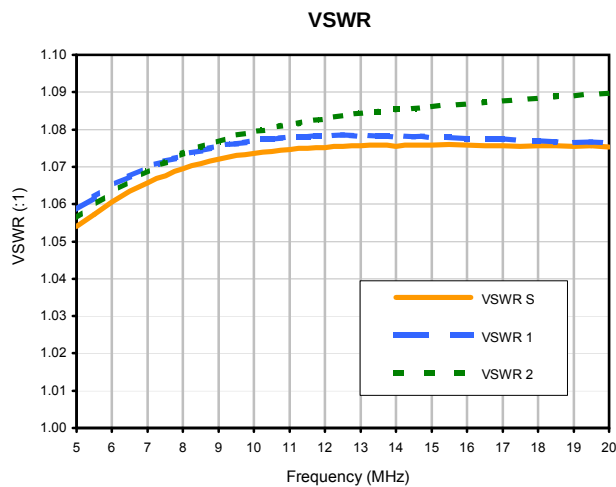
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Typical Performance Curves



Case Style

YY

Outline Dimensions

YY101
YY109
YY161



PCB Land Pattern



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

CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	WT. GRAM S
YY101*			.20 (5.08)							.450 (11.43)	--	.470 (11.94)				1.6
YY109*	.75 (19.05)	.38 (9.65)	.20 (5.08)	.010 (0.25)	.050 (1.27)	.020 (0.51)	.200 (5.08)	.075 (1.91)	.600 (15.24)	.720 (18.29)	--	.740 (18.80)	.100 (2.54)	.150 (3.81)	.148 (3.76)	1.6
YY161			.28 (7.11)							.450 (11.43)	--	.470 (11.94)				1.6

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.
For RoHS-5 Case Styles: Tin-Lead plate.
- Special Tolerances: Termination thickness $\pm .003$ inch.
- * Denotes: For SCM mixers, long termination version (case YY109) is available upon request, consult factory. To order short termination version (case YY101) add -NL suffix.



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Tape & Reel Packaging TR-F5



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
32	16	13	500

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



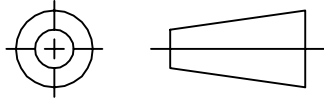
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THIRD ANGLE PROJECTION

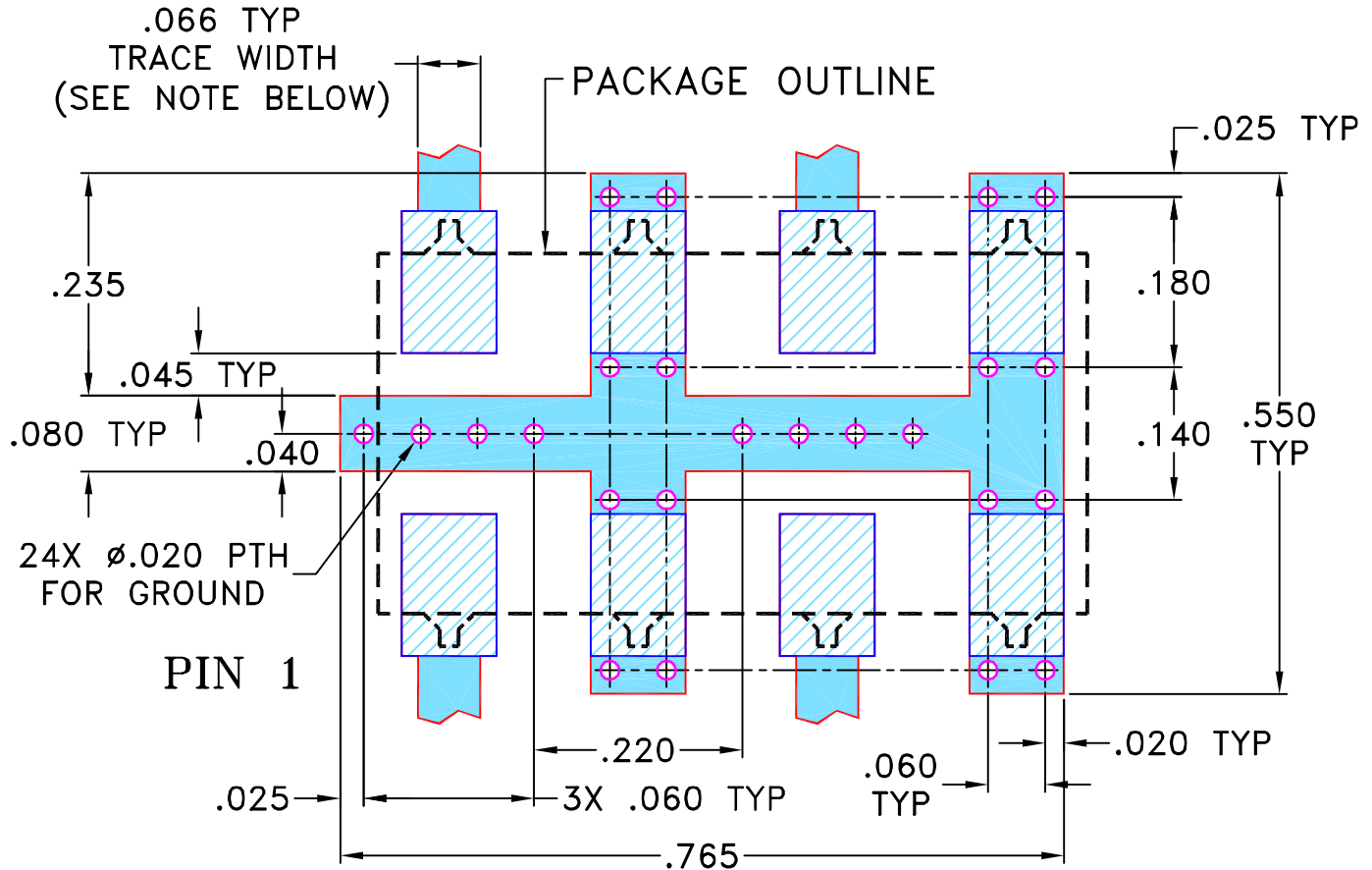


REVISIONS

REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
OR	M82272	NEW RELEASE	08/05/02	MMG	DJ
A	M102713	UPDATED NOTES, ADDED "...WITH SMOBC"	01/16/06	GT	IL

SUGGESTED MOUNTING CONFIGURATION

FOR YY101/YY161 CASE STYLES, "aw/bd/gy" PIN CONNECTIONS



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B 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

MMG

07/18/02

CHECKED

HY

08/01/02

APPROVED

DJ

08/05/02



Mini-Circuits®

13 Neptune Avenue
Brooklyn NY 11235

PL, aw/gy/bd, YY101/YY161, SCP(Q), TB-51

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

SIZE

A

CODE IDENT

15542

DRAWING NO:

98-PL-062

REV:

A

FILE:

98PL062

SCALE:

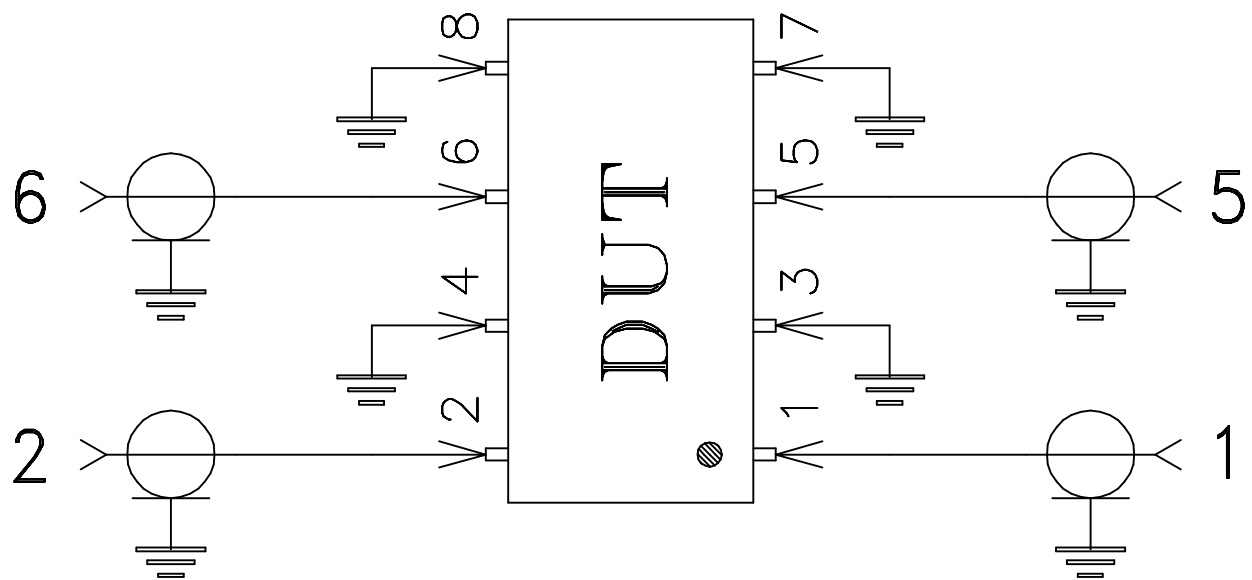
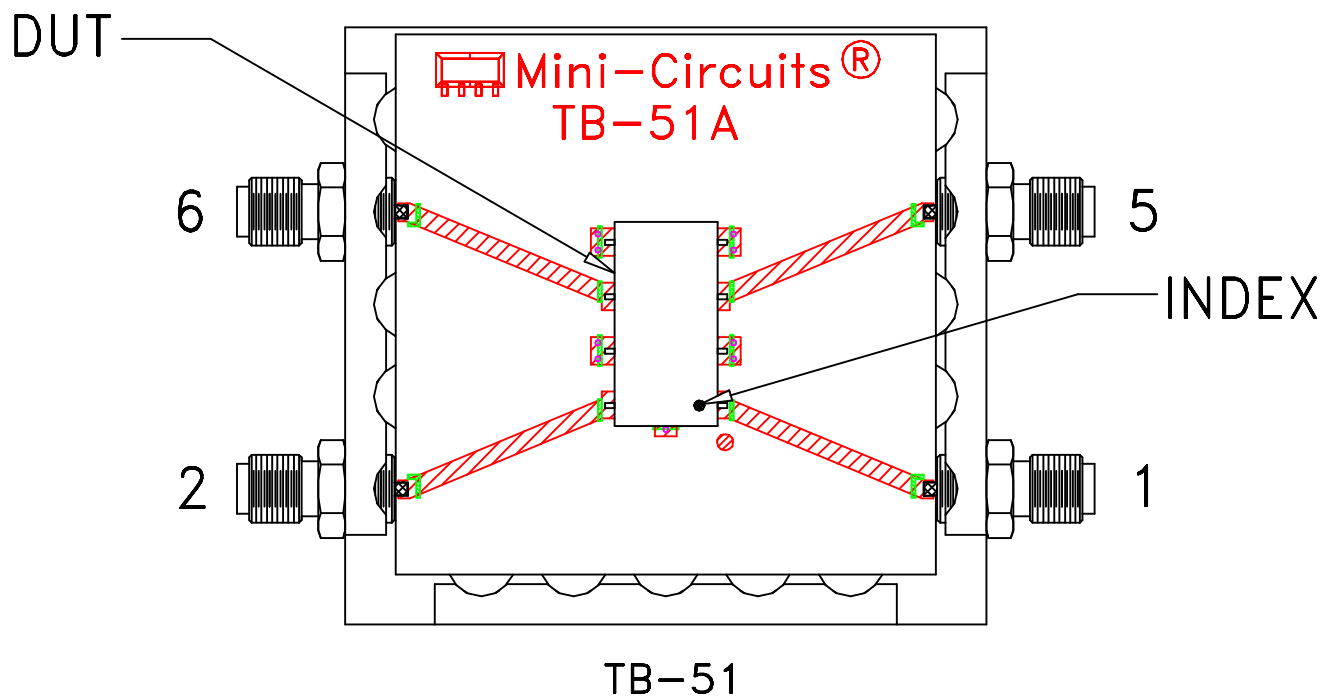
5:1

SHEET:

1 OF 1

Evaluation Board and Circuit

For Pins Connections Refer to Data Sheet of the DUT



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