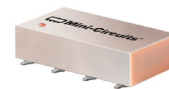


Power Splitter/Combiner

SCPJ-2-9

2 Way-180° 50Ω

200 to 900 MHz



CASE STYLE: YY161

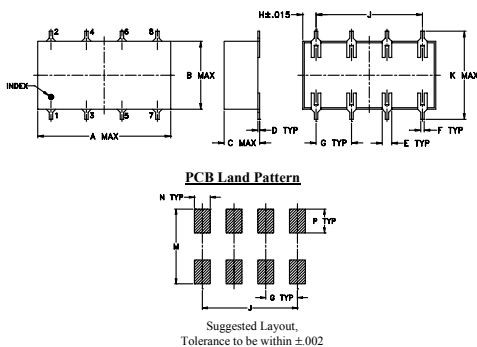
Maximum Ratings

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	5
PORT 2	6
GROUND	2,3,4,7,8

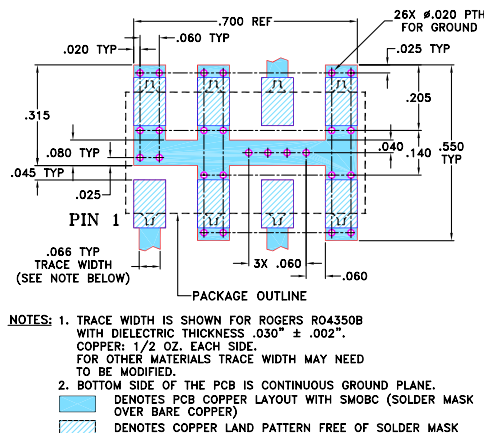
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
0.75	0.38	0.28	0.01	0.05	0.02	0.2
19.05	9.65	7.11	0.25	1.27	0.51	5.08

H	J	K	M	N	P	wt
0.075	0.6	0.45	0.47	0.1	0.15	grams
1.91	15.24	11.43	11.94	2.54	3.81	1.60

Demo Board MCL P/N: TB-50+
Suggested PCB Layout (PL-060)

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.

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

4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- wideband, 200 to 900 MHz
- good isolation, 24 dB typ.
- excellent amplitude unbalance, 0.4 dB typ.

Applications

- VHF/UHF
- cellular
- communication systems

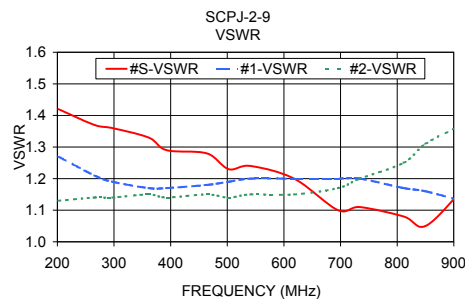
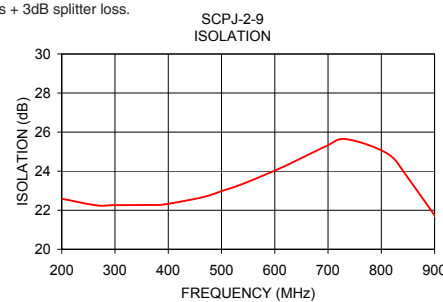
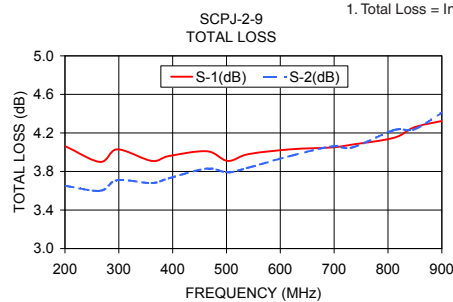
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 3 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.
200-900	24 17	1.0 1.8	6	0.7

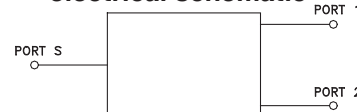
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
201.54	4.06	3.65	0.41	22.58	183.33	1.42	1.27
265.38	3.90	3.60	0.29	22.25	181.67	1.37	1.21
297.31	4.03	3.71	0.33	22.26	180.97	1.36	1.19
361.15	3.91	3.68	0.23	22.27	179.90	1.33	1.17
393.08	3.96	3.73	0.23	22.30	179.67	1.29	1.17
463.64	4.01	3.83	0.18	22.66	178.81	1.28	1.18
502.27	3.91	3.79	0.13	23.00	178.58	1.23	1.19
540.91	3.98	3.84	0.14	23.36	178.37	1.24	1.20
618.18	4.03	3.96	0.07	24.25	181.90	1.20	1.20
695.45	4.05	4.06	0.00	25.27	181.65	1.10	1.20
734.09	4.08	4.05	0.04	25.64	181.51	1.11	1.20
811.36	4.15	4.23	0.08	24.90	181.15	1.08	1.17
850.00	4.26	4.24	0.02	23.66	179.95	1.05	1.16
913.64	4.34	4.46	0.12	21.20	180.00	1.16	1.13

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



electrical schematic



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



2 Way-180° Power Splitter/Combiner

SCPJ-2-9

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. from 180° (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
30	6.26	4.06	2.20	33.70	23.30	2.67	4.24	1.18
50	5.00	3.79	1.21	21.60	23.72	2.00	2.51	1.11
75	4.51	3.67	0.85	14.53	23.81	1.69	1.87	1.08
100	4.32	3.62	0.70	10.81	23.67	1.55	1.61	1.08
125	4.21	3.60	0.61	8.43	23.50	1.48	1.46	1.09
150	4.15	3.60	0.55	6.76	23.35	1.43	1.36	1.10
175	4.11	3.60	0.51	5.48	23.25	1.40	1.28	1.12
200	4.08	3.60	0.47	4.45	23.16	1.37	1.23	1.15
225	4.05	3.62	0.43	3.59	23.13	1.36	1.18	1.17
250	4.03	3.62	0.41	2.90	23.15	1.35	1.14	1.19
275	4.02	3.65	0.38	2.25	23.19	1.34	1.11	1.22
300	4.02	3.65	0.36	1.70	23.25	1.33	1.09	1.24
325	4.01	3.68	0.33	1.20	23.40	1.33	1.08	1.27
350	4.01	3.71	0.30	0.74	23.58	1.33	1.08	1.29
375	4.01	3.73	0.28	0.33	23.76	1.33	1.09	1.31
400	4.01	3.75	0.26	0.10	23.95	1.33	1.11	1.34
425	4.02	3.77	0.24	0.42	24.18	1.32	1.13	1.36
450	4.02	3.80	0.22	0.74	24.44	1.32	1.15	1.38
475	4.03	3.83	0.20	1.03	24.73	1.32	1.17	1.40
500	4.04	3.85	0.19	1.27	25.00	1.32	1.19	1.41
525	4.05	3.88	0.17	1.50	25.23	1.31	1.21	1.43
550	4.07	3.91	0.15	1.69	25.47	1.31	1.23	1.44
575	4.08	3.94	0.14	1.88	25.67	1.30	1.25	1.45
600	4.10	3.96	0.14	1.95	25.80	1.30	1.27	1.46
625	4.11	3.99	0.12	2.06	25.86	1.29	1.29	1.47
650	4.13	4.01	0.12	2.12	25.79	1.28	1.30	1.48
675	4.16	4.04	0.12	2.16	25.70	1.26	1.32	1.48
700	4.17	4.06	0.11	2.17	25.43	1.25	1.33	1.48
725	4.20	4.09	0.10	2.15	25.04	1.23	1.34	1.48
750	4.22	4.12	0.11	2.02	24.55	1.21	1.35	1.48
775	4.24	4.14	0.10	1.94	23.91	1.19	1.35	1.47
800	4.27	4.16	0.11	1.80	23.23	1.17	1.36	1.46
825	4.31	4.19	0.11	1.63	22.49	1.15	1.36	1.44
850	4.33	4.22	0.12	1.41	21.73	1.12	1.36	1.43
875	4.37	4.25	0.12	1.13	20.90	1.09	1.36	1.41
900	4.41	4.28	0.12	0.86	20.08	1.06	1.36	1.39
925	4.46	4.32	0.14	0.49	19.28	1.03	1.36	1.36
950	4.51	4.36	0.15	0.09	18.45	1.01	1.35	1.33
975	4.57	4.41	0.16	0.29	17.67	1.05	1.35	1.31
1000	4.63	4.46	0.17	0.77	16.88	1.09	1.34	1.27
1025	4.72	4.53	0.20	1.27	16.12	1.14	1.34	1.24
1050	4.81	4.60	0.22	1.81	15.39	1.19	1.34	1.21
1075	4.92	4.69	0.22	2.45	14.69	1.25	1.34	1.17
1100	5.04	4.79	0.25	3.10	14.02	1.32	1.34	1.14
1125	5.18	4.90	0.27	3.77	13.38	1.39	1.35	1.10
1150	5.33	5.03	0.30	4.49	12.77	1.47	1.36	1.07
1175	5.51	5.18	0.33	5.31	12.20	1.57	1.38	1.05
1200	5.71	5.34	0.37	6.15	11.67	1.67	1.40	1.05
1225	5.93	5.54	0.40	6.98	11.17	1.78	1.43	1.07
1250	6.17	5.74	0.43	7.96	10.71	1.90	1.47	1.11
1275	6.44	5.96	0.48	8.97	10.29	2.03	1.51	1.15
1300	6.72	6.21	0.51	10.00	9.91	2.17	1.56	1.18
1350	7.38	6.76	0.62	12.27	9.25	2.49	1.66	1.26
1400	8.10	7.39	0.72	14.82	8.74	2.84	1.78	1.33

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

REV. X2
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100627
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2 Way-180° Power Splitter/Combiner

SCPJ-2-9

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. from 180° (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
30	6.54	4.00	2.54	34.15	24.95	2.71	4.45	1.23
50	5.17	3.76	1.42	22.52	25.51	2.04	2.61	1.14
75	4.63	3.65	0.98	15.35	25.48	1.73	1.94	1.12
100	4.40	3.61	0.79	11.46	25.15	1.60	1.66	1.12
125	4.27	3.58	0.69	9.02	24.87	1.51	1.50	1.13
150	4.18	3.57	0.61	7.21	24.69	1.46	1.38	1.14
175	4.12	3.57	0.55	5.81	24.49	1.42	1.30	1.15
200	4.09	3.57	0.52	4.69	24.21	1.40	1.25	1.17
225	4.06	3.59	0.47	3.77	24.00	1.38	1.20	1.19
250	4.03	3.59	0.44	2.98	23.92	1.37	1.16	1.21
275	4.01	3.61	0.41	2.30	23.91	1.36	1.13	1.24
300	4.00	3.62	0.38	1.68	23.88	1.35	1.10	1.26
325	3.98	3.64	0.34	1.14	23.91	1.34	1.09	1.28
350	3.98	3.65	0.32	0.60	23.98	1.34	1.09	1.30
375	3.97	3.68	0.29	0.11	24.11	1.34	1.10	1.33
400	3.96	3.69	0.27	0.38	24.28	1.33	1.11	1.35
425	3.96	3.72	0.25	0.71	24.46	1.33	1.13	1.37
450	3.96	3.74	0.22	1.10	24.64	1.33	1.15	1.39
475	3.96	3.76	0.20	1.44	24.85	1.33	1.17	1.41
500	3.97	3.78	0.18	1.73	25.09	1.32	1.19	1.42
525	3.97	3.81	0.16	2.03	25.31	1.32	1.21	1.44
550	3.98	3.84	0.14	2.30	25.49	1.31	1.23	1.45
575	3.99	3.86	0.13	2.52	25.62	1.31	1.24	1.47
600	3.99	3.88	0.11	2.68	25.69	1.30	1.26	1.48
625	4.01	3.91	0.10	2.85	25.70	1.29	1.28	1.49
650	4.01	3.93	0.08	2.99	25.57	1.28	1.29	1.49
675	4.03	3.95	0.08	3.12	25.42	1.27	1.31	1.50
700	4.04	3.97	0.07	3.16	25.09	1.25	1.32	1.50
725	4.06	3.99	0.06	3.23	24.64	1.24	1.33	1.50
750	4.07	4.02	0.05	3.17	24.08	1.22	1.34	1.49
775	4.09	4.03	0.06	3.16	23.40	1.20	1.34	1.48
800	4.11	4.05	0.05	3.13	22.70	1.18	1.35	1.47
825	4.13	4.08	0.05	3.03	21.96	1.15	1.35	1.46
850	4.15	4.09	0.06	2.91	21.21	1.13	1.35	1.45
875	4.18	4.12	0.06	2.70	20.37	1.10	1.35	1.43
900	4.21	4.15	0.06	2.49	19.56	1.07	1.35	1.41
925	4.26	4.18	0.07	2.23	18.76	1.04	1.35	1.38
950	4.30	4.22	0.08	1.96	17.95	1.01	1.34	1.35
975	4.35	4.26	0.09	1.64	17.17	1.04	1.34	1.33
1000	4.41	4.31	0.10	1.28	16.40	1.08	1.33	1.29
1025	4.49	4.37	0.12	0.87	15.66	1.13	1.33	1.26
1050	4.57	4.44	0.14	0.41	14.95	1.18	1.33	1.23
1075	4.67	4.51	0.16	0.13	14.27	1.24	1.33	1.19
1100	4.78	4.60	0.17	0.68	13.61	1.31	1.33	1.15
1125	4.91	4.71	0.20	1.26	12.97	1.38	1.34	1.11
1150	5.05	4.83	0.23	1.88	12.37	1.47	1.36	1.08
1175	5.22	4.97	0.26	2.57	11.82	1.56	1.38	1.04
1200	5.41	5.11	0.30	3.36	11.28	1.66	1.41	1.03
1225	5.62	5.30	0.32	4.09	10.80	1.77	1.44	1.05
1250	5.84	5.49	0.35	5.00	10.35	1.89	1.48	1.09
1275	6.10	5.70	0.39	5.90	9.92	2.02	1.52	1.13
1300	6.38	5.94	0.44	6.79	9.54	2.17	1.57	1.17
1350	7.00	6.47	0.53	8.89	8.87	2.50	1.68	1.25
1400	7.71	7.08	0.63	11.22	8.37	2.86	1.80	1.32

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

2 Way-180° Power Splitter/Combiner

SCPJ-2-9

Typical Performance Data

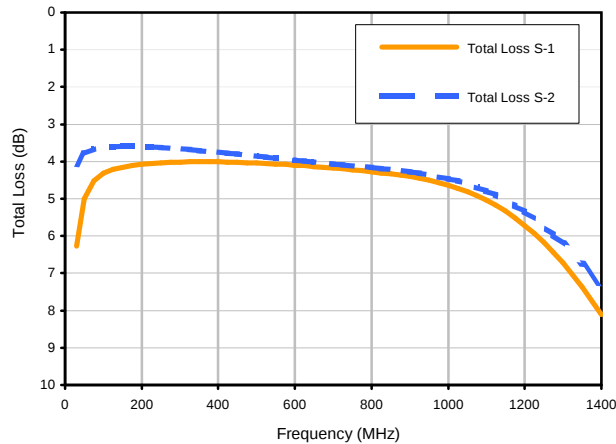
TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +85°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. from 180° (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
30	6.12	4.07	2.05	32.30	22.75	2.64	4.13	1.18
50	4.91	3.78	1.13	20.53	22.65	1.98	2.46	1.10
75	4.46	3.66	0.80	13.77	22.55	1.67	1.85	1.06
100	4.29	3.62	0.67	10.18	22.45	1.53	1.59	1.05
125	4.20	3.60	0.60	7.95	22.32	1.45	1.45	1.05
150	4.14	3.60	0.55	6.35	22.18	1.41	1.36	1.07
175	4.11	3.60	0.51	5.15	22.12	1.38	1.29	1.09
200	4.08	3.60	0.48	4.17	22.13	1.36	1.23	1.11
225	4.06	3.61	0.45	3.36	22.22	1.34	1.18	1.14
250	4.05	3.63	0.42	2.72	22.32	1.33	1.14	1.16
275	4.04	3.65	0.40	2.15	22.42	1.33	1.11	1.19
300	4.04	3.66	0.38	1.62	22.52	1.32	1.09	1.21
325	4.04	3.69	0.35	1.13	22.74	1.32	1.07	1.24
350	4.04	3.71	0.33	0.70	22.99	1.32	1.07	1.26
375	4.04	3.73	0.31	0.33	23.23	1.31	1.08	1.28
400	4.05	3.75	0.29	0.04	23.50	1.31	1.09	1.30
425	4.06	3.78	0.28	0.35	23.78	1.31	1.11	1.32
450	4.07	3.81	0.26	0.57	24.11	1.31	1.13	1.34
475	4.08	3.84	0.25	0.86	24.47	1.30	1.15	1.36
500	4.10	3.87	0.23	1.05	24.84	1.30	1.17	1.37
525	4.12	3.89	0.22	1.24	25.16	1.30	1.19	1.39
550	4.14	3.93	0.21	1.39	25.49	1.29	1.21	1.40
575	4.15	3.96	0.19	1.53	25.81	1.28	1.23	1.41
600	4.18	3.98	0.19	1.56	26.05	1.27	1.25	1.42
625	4.20	4.02	0.18	1.64	26.25	1.26	1.26	1.43
650	4.22	4.04	0.18	1.61	26.27	1.25	1.28	1.43
675	4.25	4.07	0.17	1.61	26.31	1.24	1.29	1.43
700	4.27	4.10	0.17	1.58	26.16	1.22	1.30	1.43
725	4.30	4.13	0.17	1.51	25.87	1.21	1.31	1.43
750	4.32	4.16	0.16	1.32	25.42	1.19	1.32	1.43
775	4.35	4.18	0.17	1.21	24.81	1.17	1.33	1.42
800	4.38	4.21	0.17	1.07	24.14	1.15	1.33	1.41
825	4.41	4.24	0.17	0.80	23.39	1.12	1.33	1.40
850	4.45	4.27	0.18	0.54	22.62	1.10	1.33	1.38
875	4.49	4.31	0.18	0.18	21.75	1.07	1.33	1.36
900	4.54	4.35	0.18	0.13	20.89	1.04	1.33	1.34
925	4.59	4.40	0.19	0.56	20.02	1.01	1.32	1.32
950	4.65	4.45	0.20	0.99	19.15	1.03	1.32	1.30
975	4.71	4.50	0.21	1.42	18.33	1.07	1.31	1.27
1000	4.79	4.57	0.22	1.90	17.50	1.11	1.31	1.25
1025	4.88	4.64	0.24	2.43	16.71	1.16	1.30	1.22
1050	4.97	4.72	0.25	3.02	15.94	1.21	1.30	1.19
1075	5.09	4.82	0.27	3.72	15.20	1.27	1.30	1.16
1100	5.21	4.92	0.29	4.43	14.51	1.34	1.30	1.13
1125	5.35	5.04	0.31	5.10	13.85	1.41	1.31	1.11
1150	5.51	5.18	0.33	5.88	13.21	1.49	1.32	1.10
1175	5.70	5.34	0.36	6.69	12.63	1.59	1.33	1.09
1200	5.89	5.50	0.40	7.56	12.05	1.68	1.36	1.10
1225	6.11	5.70	0.41	8.38	11.54	1.79	1.39	1.12
1250	6.35	5.91	0.44	9.38	11.06	1.91	1.42	1.14
1275	6.62	6.14	0.48	10.40	10.63	2.03	1.46	1.17
1300	6.91	6.39	0.52	11.47	10.24	2.17	1.50	1.20
1350	7.56	6.93	0.62	13.73	9.55	2.48	1.61	1.27
1400	8.27	7.56	0.71	16.32	9.02	2.81	1.72	1.32

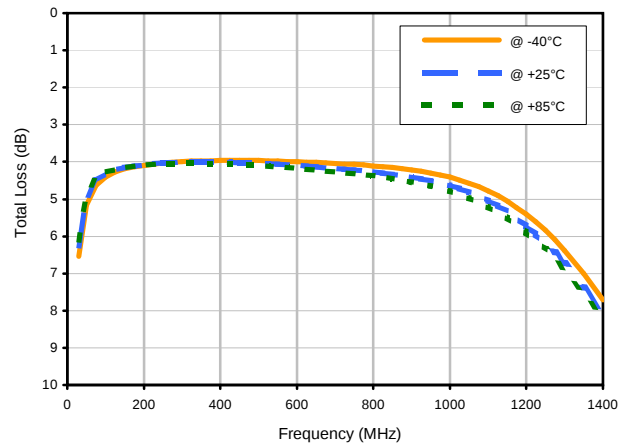
¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

Typical Performance Curves

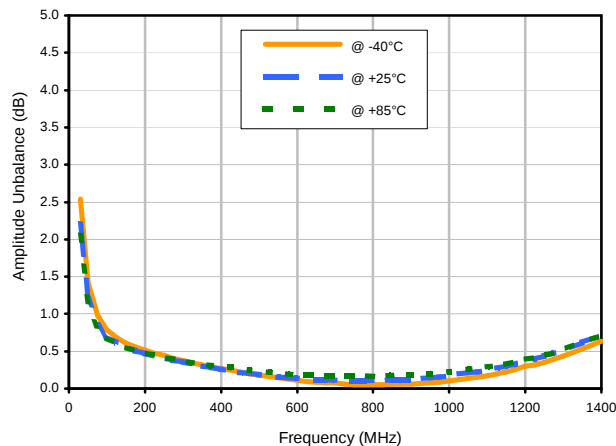
Total Loss



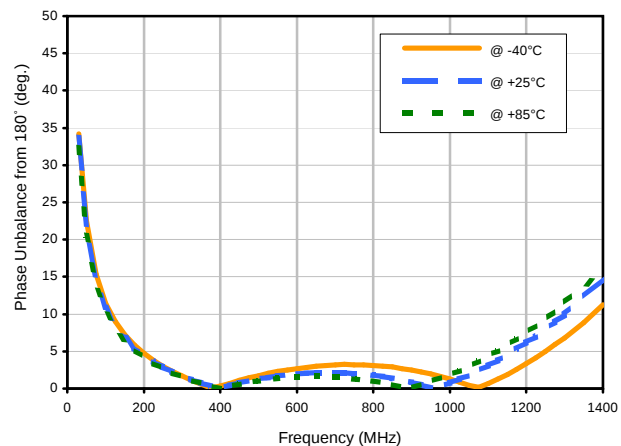
Total Loss S-1 vs. TEMPERATURE



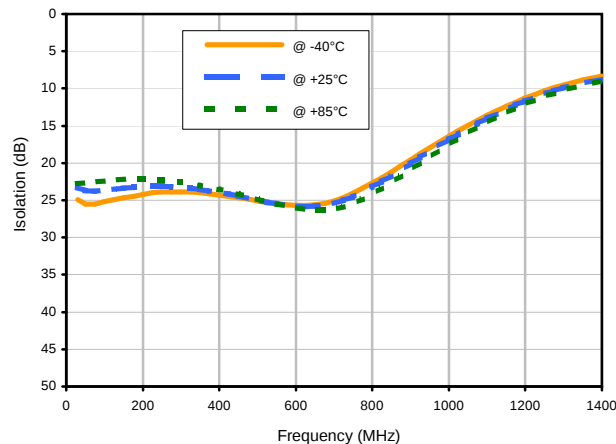
Amplitude Unbalance vs. TEMPERATURE



Phase Unbalance vs. TEMPERATURE



Isolation 1-2 vs. TEMPERATURE



REV. X2

SCPJ-2-9

100627

Page 1 of 2



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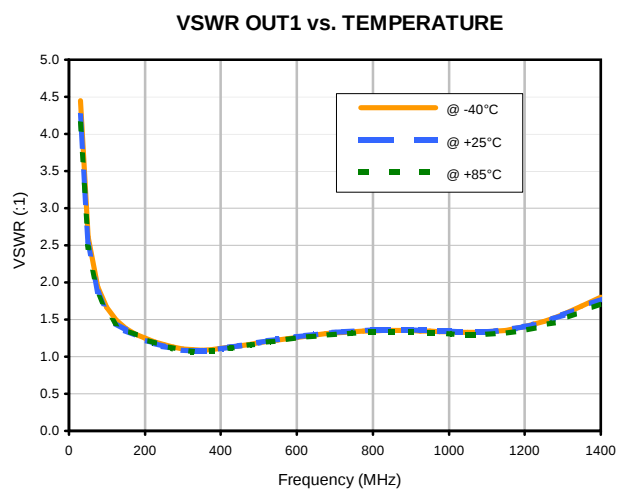
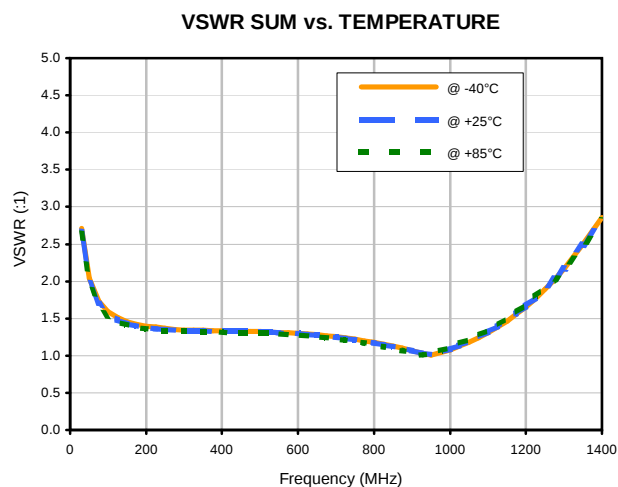
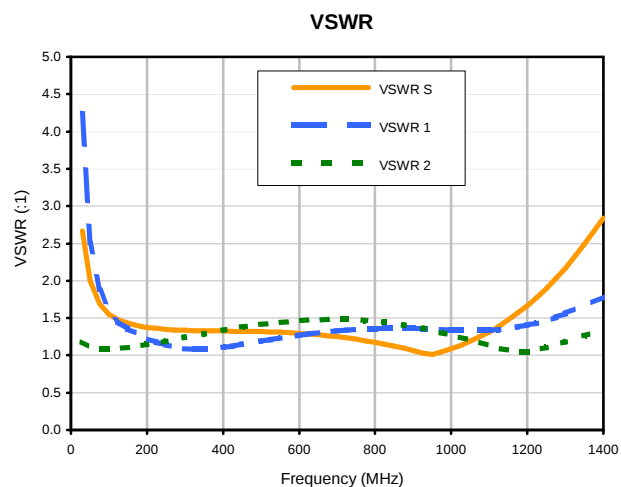
The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see



2 Way-180° Power Splitter/Combiner

SCPJ-2-9

Typical Performance Curves



REV. X2
SCPJ-2-9
100627
Page 2 of 2

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.



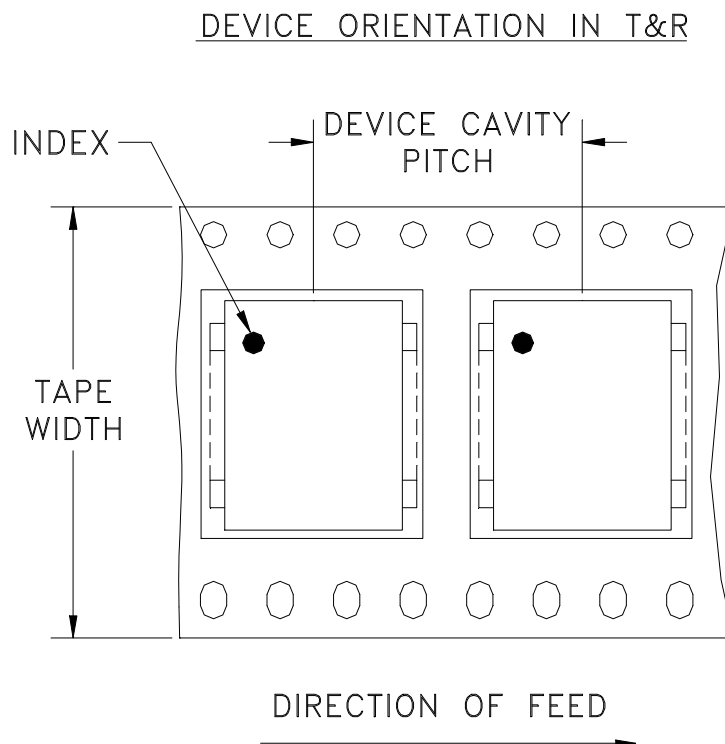
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Tape & Reel Packaging TR-F5



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



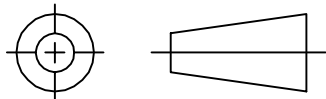
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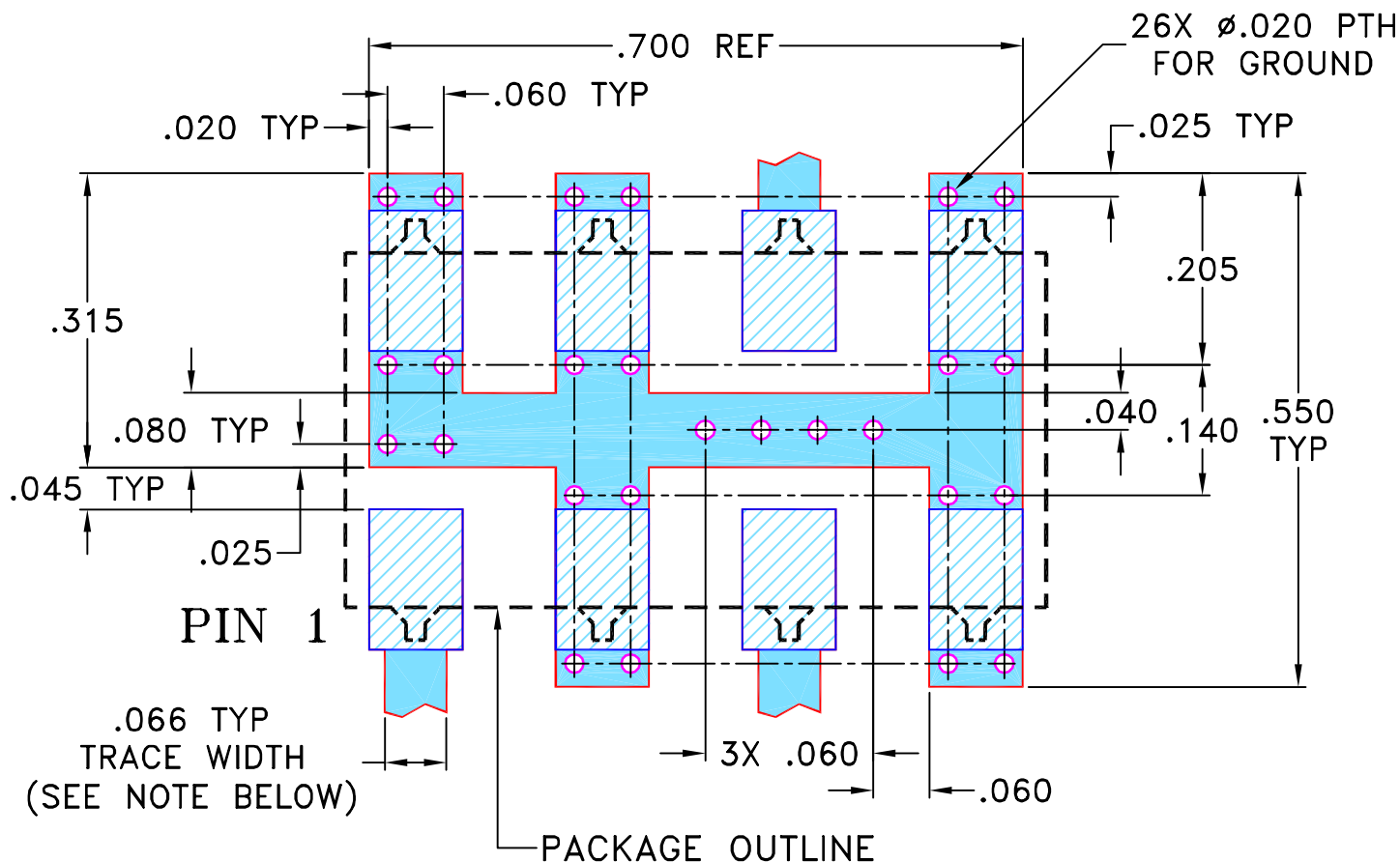
THIRD ANGLE PROJECTION



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 YY101/161 CASE STYLE, "aq/az" PIN CONNECTIONS



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

DRAWN

MMG

07/18/02

TOLERANCES ON:

CHECKED

HY

08/01/02

2 PL DECIMALS $\pm$

APPROVED

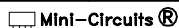
DJ

08/05/02

3 PL DECIMALS $\pm$.005

ANGLES $\pm$

FRACTIONS $\pm$



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



Mini-Circuits®

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Brooklyn NY 11235

PL, aq/az YY101/161 SCP/SCPJ TB-50

SIZE
A

CODE IDENT
15542

DRAWING NO:
98-PL-060

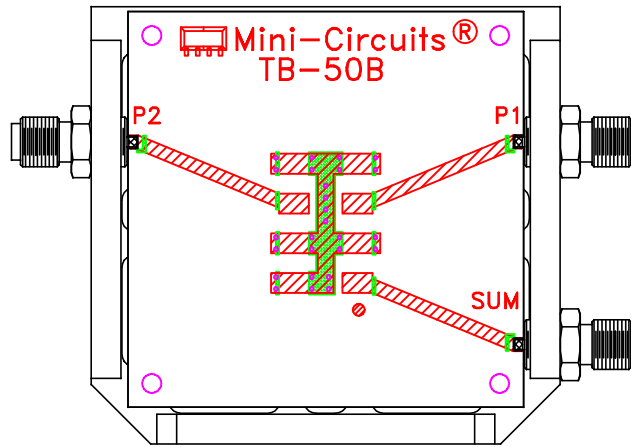
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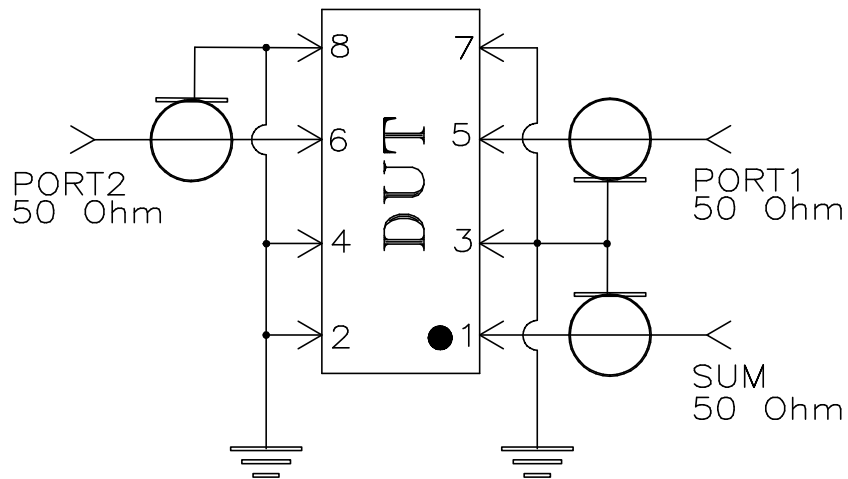
SCALE: 5:1

SHEET: 1 OF 1

Evaluation Board and Circuit



TB-50+



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