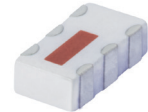


Power Splitter/Combiner

2 Way-0° 50Ω 3700 to 4200 MHz

SCN-2-45+
SCN-2-45



Generic photo used for illustration purposes only

CASE STYLE: FV1206-1

+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" 20, 50, 100, 200, 500, 1000, 3000

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

Power Input (as a splitter) 4W* max.

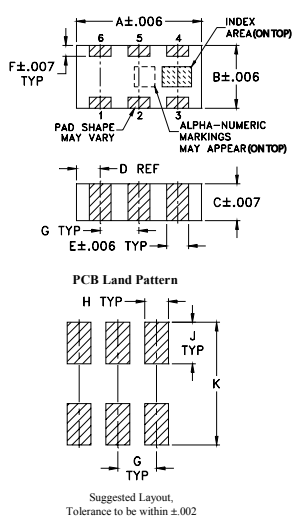
*Derate linearly to 1.3W at 100°C ambient, power input as combiner is limited by rating of external 100Ω Resistor.

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

Pin Connections

SUM PORT	2
PORT 1	6
PORT 2	4
GROUND	1,3,5
PORT 1-2	resistor external 100 OHMS

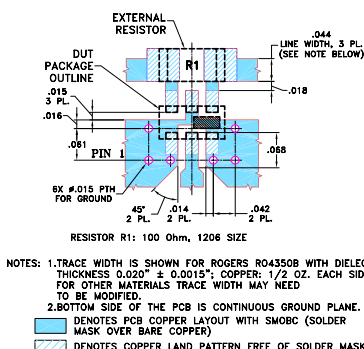
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K	wt	
.039	.024	.042	.123	grams	
0.99	0.61	1.07	3.12	.020	

Demo Board MCL P/N: TB-252
Suggested PCB Layout (PL-129)



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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

- isolation resistor, external 100 ohms
- low insertion loss, 0.7 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- excellent phase unbalance, 1.5 deg. typ.
- high isolation, 22 dB typ.
- excellent power handling, 4W as splitter
- small size, 0.12"X0.06"X0.035"
- ESD non-sensitive
- temperature stable LTCC technology
- wrap around terminations for excellent solderability
- low cost
- protected by US patent 6,967,544

Applications

- maritime mobile

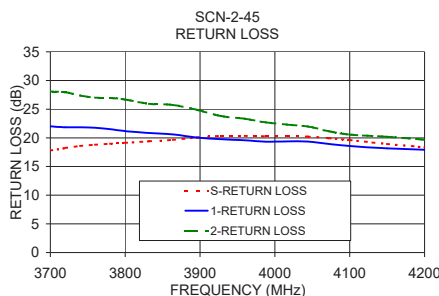
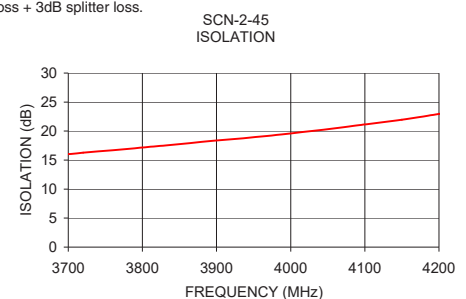
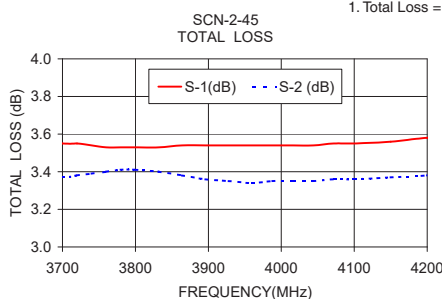
Electrical Specifications

FREQUENCY (MHz)	INSERTION LOSS (dB) ABOVE 3.0 dB		ISOLATION (dB)		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		RETURN LOSS (dB)	
	Typ.	Max.	Typ.	Min.	Typ.	Max.	Typ.	Max.	INPUT Typ.	OUTPUT Typ.
3700-4200	0.7	1.0	22	13	1.5	4.0	0.2	0.4	14	17
3800-4100	0.7	1.0	22	15	1.5	4.0	0.2	0.4	16	17

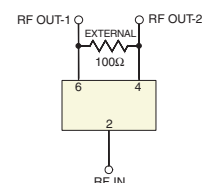
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	Return Loss (dB)		
	S-1	S-2				S	1	2
3700.00	3.55	3.37	0.18	16.04	1.57	17.81	22.02	28.10
3720.00	3.55	3.38	0.17	16.28	1.65	18.21	21.85	27.94
3740.00	3.54	3.39	0.15	16.49	1.66	18.58	21.83	27.36
3760.00	3.53	3.40	0.13	16.69	1.60	18.81	21.77	27.02
3780.00	3.53	3.41	0.12	16.91	1.46	18.96	21.52	26.95
3800.00	3.53	3.41	0.12	17.16	1.31	19.12	21.17	26.69
3864.00	3.54	3.38	0.16	17.92	1.09	19.67	20.59	25.75
3896.00	3.54	3.36	0.18	18.33	1.16	20.06	20.04	24.89
3960.00	3.54	3.34	0.19	19.05	1.26	20.35	19.56	23.33
4016.00	3.54	3.35	0.19	19.83	1.35	20.24	19.39	22.30
4044.00	3.54	3.35	0.19	20.24	1.35	20.20	19.35	21.98
4072.00	3.55	3.36	0.19	20.68	1.35	19.94	18.95	21.14
4100.00	3.55	3.36	0.19	21.14	1.38	19.60	18.59	20.57
4150.00	3.56	3.37	0.19	21.95	1.40	18.95	18.16	20.17
4200.00	3.58	3.38	0.19	22.97	1.44	18.34	17.92	19.66

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



electrical schematic



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REV. E
M151107
SCN-2-45
ED-11378C/2
AD/TD/CP/AM
150929

2 Way-0° Power Splitter/Combiner

SCN-2-45

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)	VSWR		
	S-1	S-2				S	(:1) 1	2
1000	3.63	3.63	0.00	0.44	4.77	2.00	1.62	1.63
1100	3.64	3.65	0.01	0.52	4.98	2.01	1.58	1.58
1200	3.65	3.66	0.01	0.58	5.19	2.03	1.54	1.54
1400	3.68	3.69	0.01	0.63	5.67	2.05	1.46	1.47
1600	3.71	3.71	0.00	0.69	6.17	2.06	1.39	1.40
1700	3.73	3.72	0.01	0.75	6.43	2.07	1.36	1.37
1800	3.74	3.72	0.02	0.80	6.70	2.07	1.33	1.35
1900	3.75	3.73	0.02	0.88	6.98	2.08	1.31	1.33
2000	3.76	3.74	0.02	0.93	7.28	2.08	1.30	1.31
2050	3.77	3.74	0.03	0.98	7.43	2.08	1.29	1.30
2100	3.77	3.74	0.03	1.00	7.59	2.08	1.28	1.30
2150	3.77	3.75	0.02	1.05	7.75	2.09	1.28	1.30
2200	3.78	3.75	0.03	1.07	7.91	2.09	1.27	1.29
2300	3.79	3.76	0.03	1.13	8.25	2.09	1.27	1.29
2400	3.79	3.77	0.02	1.17	8.61	2.09	1.27	1.29
2500	3.79	3.76	0.03	1.21	8.98	2.08	1.27	1.29
2600	3.78	3.75	0.03	1.27	9.37	2.06	1.27	1.29
2650	3.78	3.75	0.03	1.29	9.58	2.05	1.27	1.30
2700	3.77	3.74	0.03	1.35	9.78	2.04	1.27	1.30
2750	3.77	3.73	0.04	1.37	9.99	2.03	1.27	1.30
2800	3.76	3.73	0.03	1.43	10.21	2.01	1.27	1.30
2850	3.75	3.72	0.03	1.48	10.44	1.99	1.27	1.30
2900	3.74	3.71	0.03	1.52	10.68	1.98	1.27	1.30
2950	3.73	3.70	0.03	1.56	10.93	1.96	1.27	1.30
3000	3.72	3.68	0.04	1.63	11.19	1.94	1.27	1.30
3100	3.69	3.66	0.03	1.70	11.73	1.90	1.26	1.30
3200	3.67	3.63	0.04	1.80	12.32	1.85	1.26	1.30
3300	3.64	3.60	0.04	1.88	12.97	1.80	1.25	1.29
3400	3.60	3.57	0.03	1.95	13.68	1.74	1.25	1.29
3500	3.57	3.53	0.04	2.04	14.46	1.68	1.25	1.28
3600	3.55	3.50	0.05	2.11	15.33	1.63	1.24	1.26
3700	3.52	3.48	0.04	2.17	16.32	1.57	1.23	1.25
3750	3.51	3.46	0.05	2.21	16.86	1.55	1.23	1.24
3800	3.49	3.45	0.04	2.25	17.42	1.52	1.23	1.23
3850	3.49	3.44	0.05	2.30	18.00	1.50	1.22	1.23
3900	3.47	3.43	0.04	2.34	18.66	1.48	1.22	1.22
3950	3.47	3.42	0.05	2.39	19.35	1.46	1.22	1.21
4000	3.46	3.42	0.04	2.42	20.04	1.44	1.22	1.20
4050	3.45	3.42	0.03	2.45	20.83	1.43	1.22	1.20
4100	3.45	3.41	0.04	2.50	21.60	1.42	1.22	1.19
4150	3.45	3.41	0.04	2.51	22.33	1.41	1.22	1.19
4200	3.45	3.42	0.03	2.55	23.06	1.41	1.23	1.19
4250	3.46	3.42	0.04	2.57	23.59	1.41	1.23	1.19
4500	3.54	3.51	0.03	2.76	22.90	1.53	1.31	1.24
4750	3.73	3.71	0.02	2.90	19.35	1.80	1.42	1.34
5000	4.03	4.02	0.01	3.09	16.51	2.19	1.56	1.49
5250	4.44	4.43	0.01	3.23	14.45	2.68	1.73	1.65
5500	4.92	4.91	0.01	3.30	12.98	3.28	1.89	1.82
5750	5.46	5.45	0.01	3.55	11.93	3.99	2.04	2.00
6000	6.05	6.04	0.01	3.65	11.15	4.81	2.20	2.17
6250	6.64	6.64	0.00	3.69	10.62	5.68	2.32	2.33
6500	7.23	7.23	0.00	3.82	10.30	6.61	2.46	2.47
6750	7.76	7.78	0.02	3.91	10.09	7.55	2.56	2.63
7000	8.27	8.29	0.02	4.02	9.97	8.47	2.66	2.77

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

SCN-2-45

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -55°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR		
	S-1	S-2				S	(:1) 1	2
1000	3.51	3.52	0.01	0.11	4.68	2.00	1.64	1.64
1100	3.52	3.54	0.02	0.07	4.87	2.02	1.59	1.60
1200	3.52	3.53	0.01	0.04	5.09	2.02	1.56	1.56
1400	3.54	3.58	0.04	0.13	5.50	2.06	1.47	1.48
1600	3.56	3.61	0.05	0.20	5.95	2.10	1.39	1.42
1700	3.57	3.60	0.03	0.32	6.21	2.10	1.37	1.39
1800	3.59	3.62	0.03	0.27	6.45	2.13	1.35	1.38
1900	3.61	3.64	0.03	0.33	6.71	2.15	1.32	1.36
2000	3.62	3.65	0.03	0.41	6.98	2.18	1.31	1.35
2050	3.63	3.65	0.02	0.42	7.13	2.18	1.30	1.34
2100	3.64	3.66	0.02	0.45	7.27	2.19	1.30	1.34
2150	3.65	3.67	0.02	0.49	7.41	2.21	1.30	1.35
2200	3.66	3.67	0.01	0.55	7.59	2.21	1.30	1.35
2300	3.69	3.69	0.00	0.60	7.88	2.24	1.29	1.34
2400	3.71	3.70	0.01	0.55	8.23	2.26	1.31	1.35
2500	3.72	3.70	0.02	0.56	8.58	2.27	1.30	1.35
2600	3.72	3.69	0.03	0.58	8.97	2.27	1.31	1.37
2650	3.73	3.69	0.04	0.58	9.16	2.27	1.32	1.37
2700	3.73	3.68	0.05	0.49	9.37	2.27	1.32	1.37
2750	3.73	3.68	0.05	0.43	9.58	2.27	1.33	1.37
2800	3.73	3.68	0.05	0.37	9.79	2.27	1.32	1.37
2850	3.72	3.67	0.05	0.36	10.02	2.25	1.32	1.37
2900	3.70	3.65	0.05	0.35	10.28	2.23	1.32	1.37
2950	3.68	3.63	0.05	0.31	10.55	2.19	1.31	1.37
3000	3.65	3.60	0.05	0.26	10.80	2.16	1.30	1.36
3100	3.59	3.55	0.04	0.25	11.39	2.09	1.28	1.34
3200	3.52	3.46	0.06	0.20	12.08	1.97	1.26	1.32
3300	3.47	3.40	0.06	0.02	12.73	1.89	1.25	1.28
3400	3.37	3.32	0.05	0.03	13.55	1.76	1.22	1.24
3500	3.30	3.24	0.06	0.06	14.45	1.64	1.21	1.20
3600	3.25	3.19	0.06	0.23	15.41	1.55	1.22	1.17
3700	3.19	3.15	0.04	0.26	16.54	1.46	1.20	1.14
3750	3.17	3.13	0.04	0.27	17.15	1.42	1.21	1.13
3800	3.15	3.11	0.04	0.32	17.79	1.38	1.21	1.12
3850	3.14	3.11	0.03	0.39	18.39	1.35	1.22	1.12
3900	3.12	3.10	0.02	0.42	19.10	1.34	1.22	1.13
3950	3.11	3.09	0.02	0.46	19.96	1.31	1.23	1.14
4000	3.10	3.09	0.01	0.45	20.80	1.30	1.23	1.15
4050	3.10	3.10	0.00	0.45	21.63	1.30	1.24	1.17
4100	3.11	3.11	0.00	0.49	22.61	1.31	1.26	1.20
4150	3.11	3.12	0.01	0.51	23.80	1.32	1.27	1.23
4200	3.11	3.13	0.02	0.48	24.77	1.34	1.27	1.25
4250	3.13	3.15	0.01	0.45	25.29	1.37	1.28	1.28
4500	3.23	3.28	0.05	0.41	24.84	1.59	1.34	1.43
4750	3.42	3.46	0.04	0.27	20.58	1.87	1.43	1.54
5000	3.65	3.68	0.02	0.29	17.55	2.19	1.54	1.61
5250	3.91	3.90	0.01	0.43	15.23	2.54	1.69	1.58
5500	4.11	4.10	0.01	0.65	13.46	2.85	1.79	1.52
5750	4.35	4.36	0.01	1.18	12.20	3.21	1.91	1.52
6000	4.79	4.83	0.04	1.65	11.14	3.92	2.07	1.70
6250	5.36	5.48	0.12	1.79	10.49	4.95	2.23	2.06
6500	6.27	6.48	0.21	1.86	10.12	6.94	2.47	2.62
6750	7.30	7.62	0.32	1.55	10.10	9.85	2.70	3.35
7000	8.40	8.81	0.41	0.86	10.28	13.92	2.93	4.09

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

2 Way-0° Power Splitter/Combiner

SCN-2-45

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +100°C

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR		
	S-1	S-2				S	(:1) 1	2
1000	3.69	3.68	0.01	0.49	4.82	2.03	1.61	1.62
1100	3.71	3.70	0.01	0.59	5.02	2.04	1.57	1.57
1200	3.73	3.72	0.01	0.62	5.25	2.06	1.52	1.52
1400	3.77	3.74	0.03	0.70	5.75	2.06	1.45	1.44
1600	3.80	3.75	0.05	0.83	6.29	2.06	1.38	1.37
1700	3.81	3.75	0.06	0.98	6.57	2.06	1.35	1.33
1800	3.82	3.75	0.07	1.08	6.87	2.05	1.32	1.31
1900	3.82	3.74	0.08	1.20	7.19	2.03	1.30	1.28
2000	3.81	3.73	0.08	1.32	7.52	2.01	1.28	1.27
2050	3.82	3.73	0.09	1.39	7.69	2.00	1.27	1.25
2100	3.82	3.73	0.09	1.47	7.87	1.99	1.26	1.25
2150	3.81	3.73	0.08	1.56	8.04	1.98	1.26	1.24
2200	3.81	3.73	0.08	1.61	8.22	1.97	1.25	1.24
2300	3.79	3.73	0.06	1.72	8.59	1.94	1.24	1.23
2400	3.78	3.72	0.06	1.84	8.98	1.91	1.24	1.22
2500	3.76	3.71	0.05	1.94	9.38	1.88	1.24	1.22
2600	3.74	3.69	0.05	2.05	9.80	1.84	1.24	1.22
2650	3.73	3.69	0.04	2.09	10.01	1.82	1.23	1.22
2700	3.72	3.68	0.04	2.15	10.23	1.80	1.23	1.22
2750	3.71	3.68	0.03	2.15	10.45	1.78	1.23	1.22
2800	3.70	3.67	0.03	2.22	10.68	1.76	1.23	1.22
2850	3.69	3.66	0.03	2.26	10.93	1.74	1.23	1.23
2900	3.68	3.66	0.02	2.28	11.16	1.72	1.23	1.23
2950	3.67	3.65	0.02	2.32	11.42	1.70	1.23	1.24
3000	3.66	3.65	0.01	2.36	11.69	1.68	1.23	1.24
3100	3.64	3.64	0.00	2.42	12.22	1.65	1.23	1.25
3200	3.64	3.64	0.00	2.46	12.78	1.63	1.23	1.26
3300	3.63	3.64	0.01	2.47	13.42	1.61	1.24	1.28
3400	3.63	3.63	0.00	2.50	14.11	1.59	1.24	1.30
3500	3.63	3.63	0.00	2.49	14.85	1.58	1.24	1.31
3600	3.64	3.64	0.00	2.48	15.62	1.57	1.24	1.33
3700	3.65	3.65	0.00	2.45	16.53	1.56	1.25	1.35
3750	3.66	3.65	0.01	2.46	17.03	1.56	1.25	1.35
3800	3.66	3.65	0.01	2.47	17.56	1.55	1.24	1.36
3850	3.67	3.65	0.02	2.49	18.12	1.55	1.24	1.36
3900	3.67	3.65	0.02	2.53	18.71	1.55	1.24	1.36
3950	3.67	3.65	0.02	2.56	19.38	1.54	1.24	1.36
4000	3.67	3.65	0.02	2.59	20.04	1.53	1.23	1.35
4050	3.68	3.65	0.03	2.63	20.77	1.52	1.23	1.35
4100	3.68	3.65	0.03	2.66	21.45	1.52	1.22	1.34
4150	3.69	3.65	0.04	2.70	22.11	1.51	1.22	1.34
4200	3.69	3.65	0.04	2.73	22.81	1.51	1.23	1.33
4250	3.70	3.65	0.05	2.77	23.34	1.51	1.22	1.32
4500	3.73	3.68	0.05	3.06	23.13	1.51	1.26	1.24
4750	3.83	3.79	0.04	3.40	19.68	1.61	1.34	1.13
5000	4.06	4.05	0.01	3.71	16.43	1.90	1.48	1.20
5250	4.49	4.52	0.03	3.94	14.23	2.39	1.66	1.47
5500	5.17	5.25	0.08	4.06	12.71	3.19	1.87	1.86
5750	6.02	6.15	0.13	3.87	11.85	4.23	2.06	2.32
6000	7.00	7.16	0.16	3.63	11.33	5.50	2.25	2.77
6250	7.95	8.13	0.18	3.18	11.09	6.83	2.41	3.14
6500	8.76	8.92	0.16	2.87	10.92	8.02	2.53	3.35
6750	9.38	9.45	0.07	2.63	10.70	8.74	2.64	3.31
7000	9.81	9.79	0.02	2.59	10.37	9.23	2.69	3.05

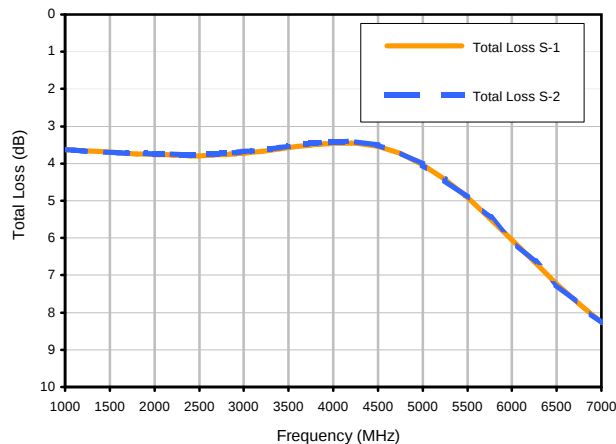
¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

2 Way-0° Power Splitter/Combiner

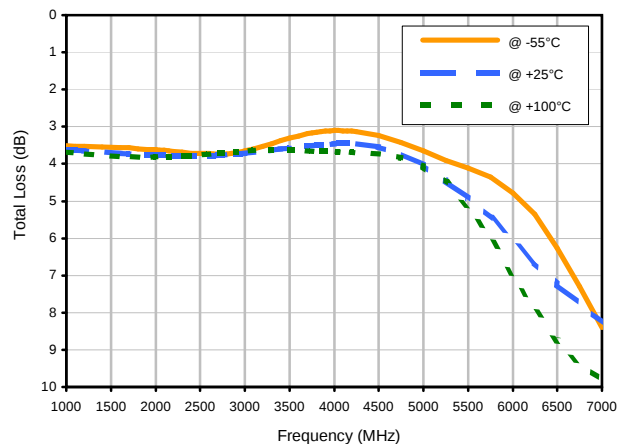
SCN-2-45

Typical Performance Curves

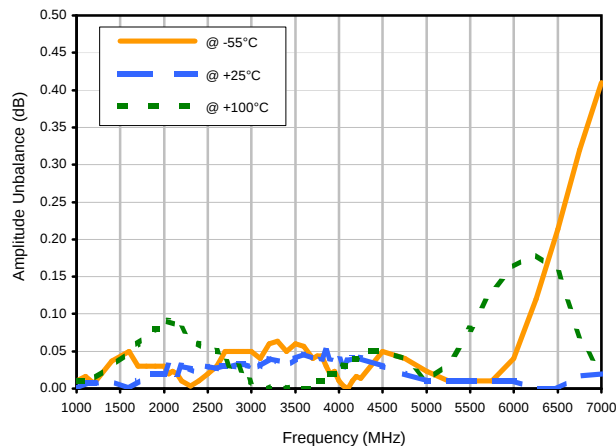
Total Loss



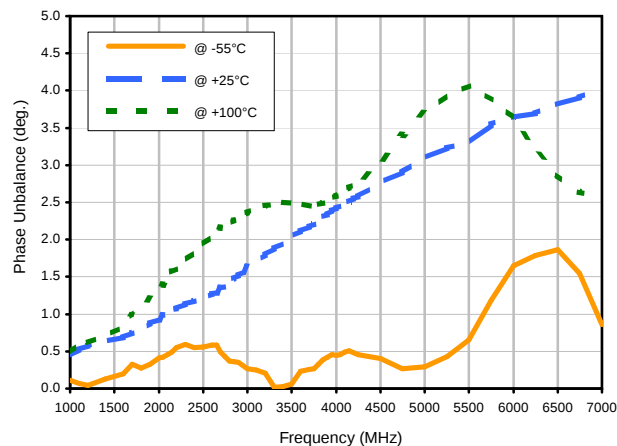
Total Loss S-1 vs. TEMPERATURE



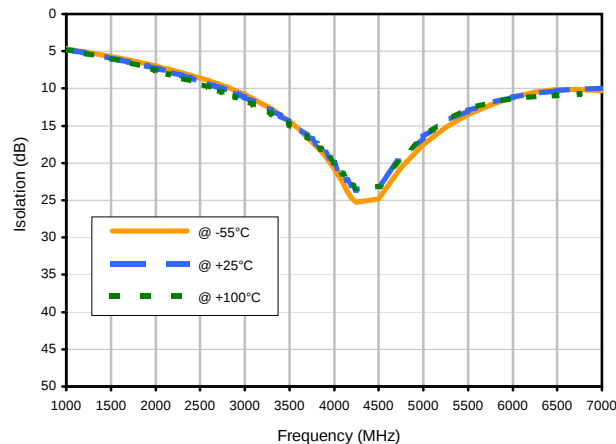
Amplitude Unbalance vs. TEMPERATURE



Phase Unbalance vs. TEMPERATURE



Isolation 1-2 vs. TEMPERATURE



REV. X2
SCN-2-45
100627
Page 1 of 2



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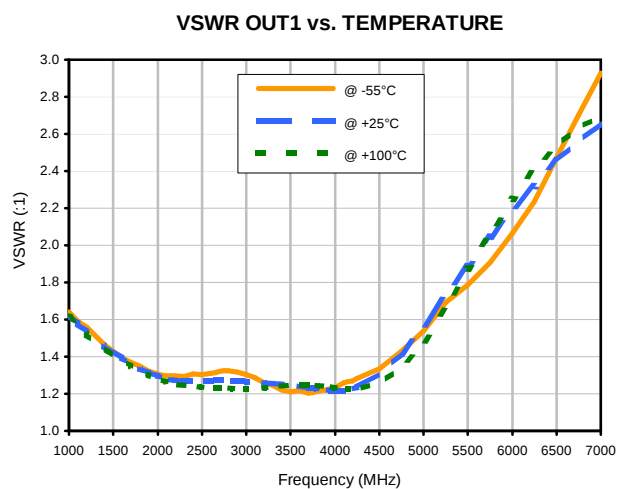
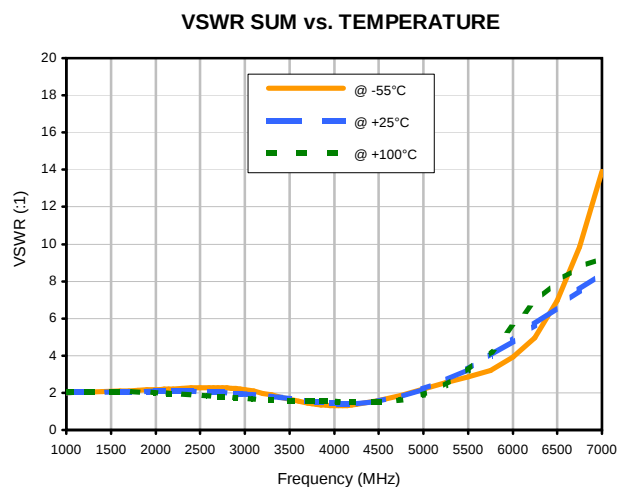
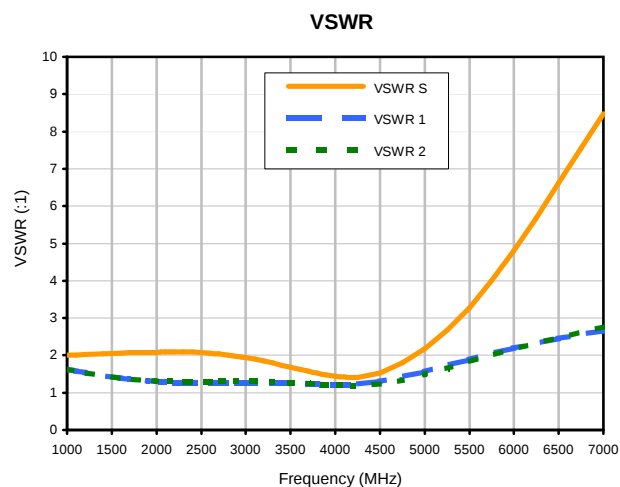
The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see



2 Way-0° Power Splitter/Combiner

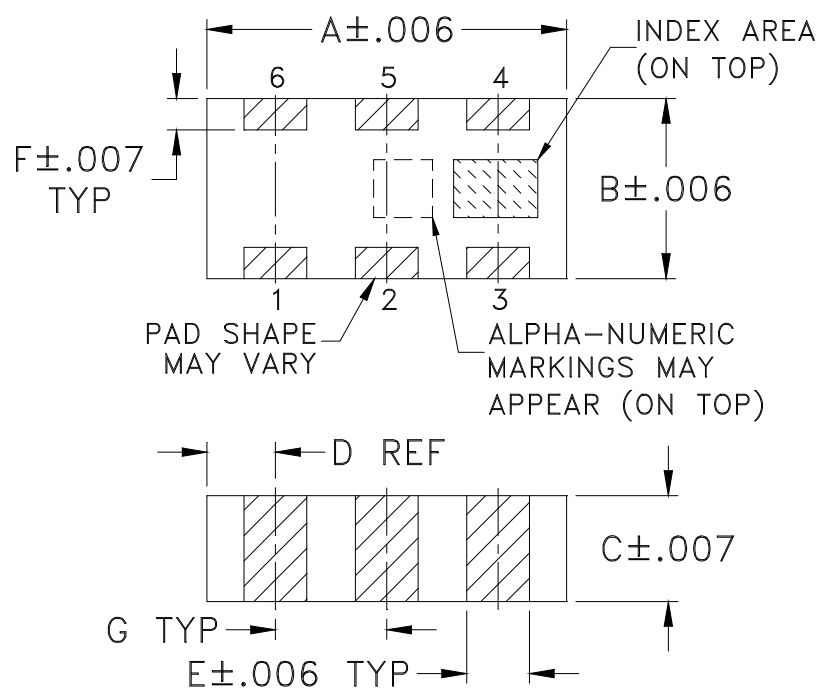
SCN-2-45

Typical Performance Curves

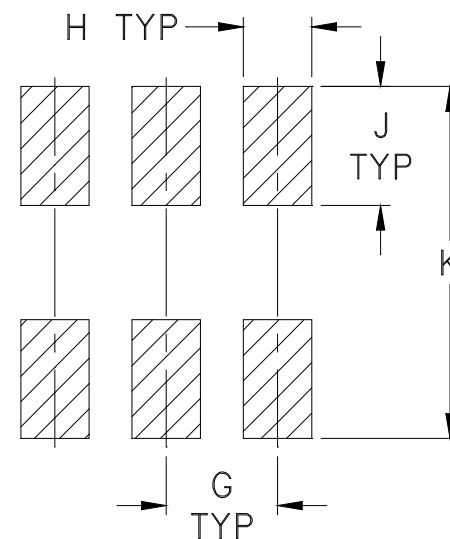


REV. X2
SCN-2-45
100627
Page 2 of 2

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	M	N	P	WT. GRAM
FV1206-1	.126 (3.20)	.063 (1.60)	.035 (0.89)	.024 (0.61)	.022 (0.56)	.011 (0.28)	.039 (0.99)	.024 (0.61)	.042 (1.07)	.123 (3.12)	--	--	--	--	.020

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

Notes:

- Open style, ceramic base.
- Termination finish: **as shown below or indicated on Data Sheet.**
 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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RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging

TR-F75

DEVICE ORIENTATION IN T&R

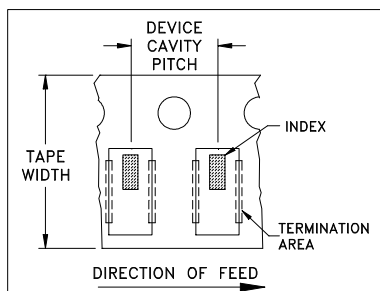


ILLUSTRATION 1

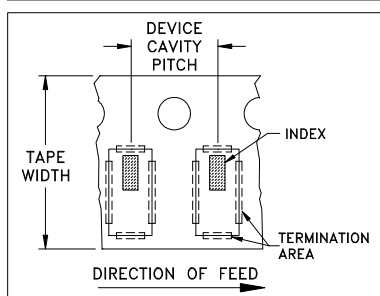


ILLUSTRATION 2

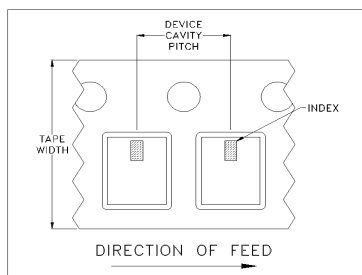


ILLUSTRATION 3

Applicable Case Styles
FV1206-1
FV1206-3

Applicable Case Styles
FV1206-4
FV1206-5
FV1206-6
FV1206-7
FV1206-9
JC0603C-1

Applicable Case Styles
NL1008C-6
FV1206-12
NL1008C-9
NL1008C-10

Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
8	4	7	Small quantity standards (see note)	20
				50
				100
				200
				500
				1000
			Standard	3000

Note: Please consult individual model data sheet to determine device per reel availability.

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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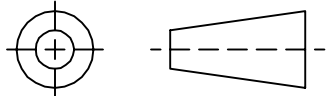
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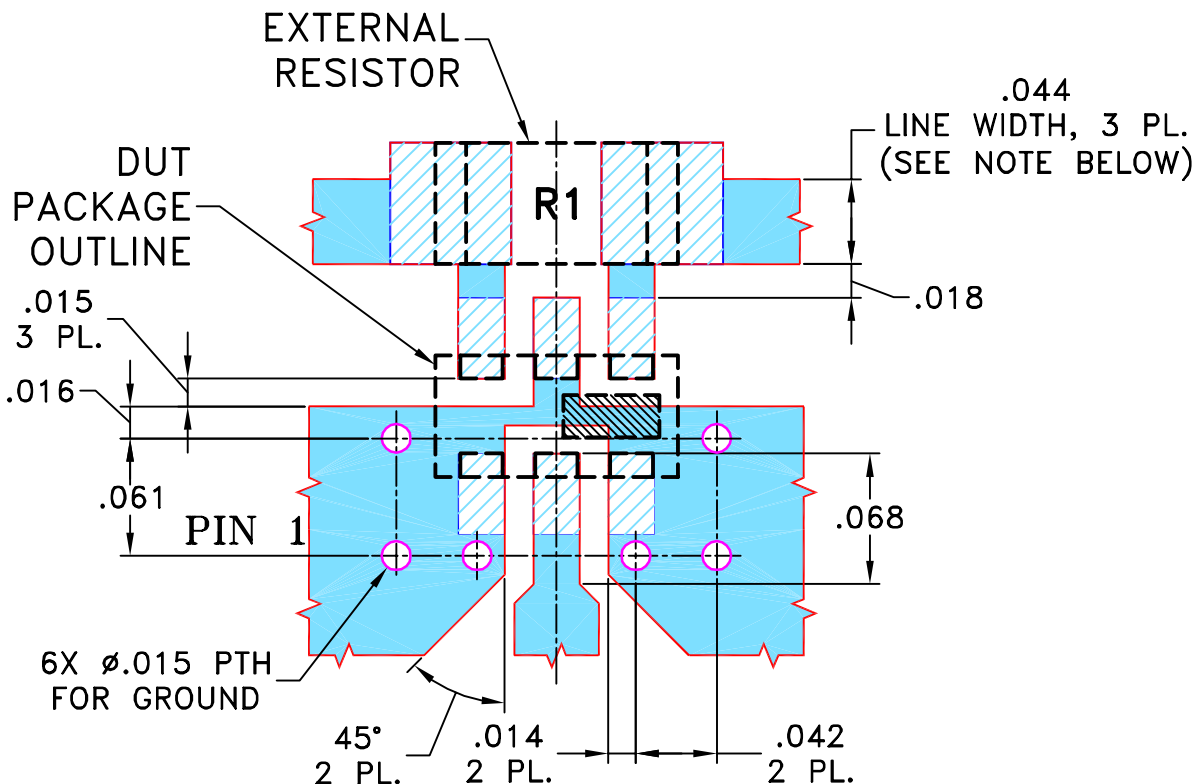
THIRD ANGLE PROJECTION



REVISIONS

REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
A	M86650	UPDATED NOTE 2	04/18/03	GF	DJ
B	M86880	CHANGED APPEARANCE	05/05/03	IL	ABD
C	M91639	REMOVED NOTE 2, UPDATED DIMENSIONS	04/14/04	AV	DJ
D	M102713	ADDED "...WITH SMOBC"	01/16/06	GF	IL

**SUGGESTED MOUNTING CONFIGURATION
FOR FV1206-1 CASE STYLE, "pa" PIN CONNECTION.**



RESISTOR R1: 100 Ohm, 1206 SIZE

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" $\pm$ 0.0015"; 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

GF

04/11/03

CHECKED

IL

04/15/03

APPROVED

ABD

04/15/03

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



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Brooklyn NY 11235

PL, pa, FV1206-1, SCN, TB-252

SIZE

A

CODE IDENT

15542

DRAWING NO:

98-PL-129

REV:

D

FILE:

98PL129

SCALE:

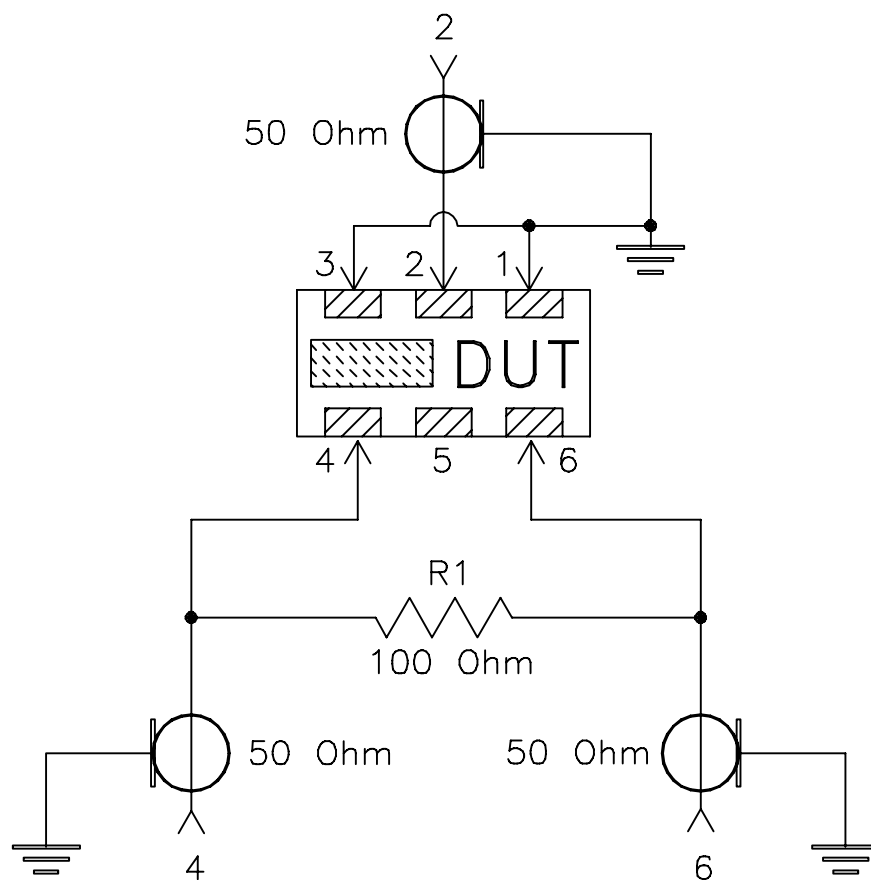
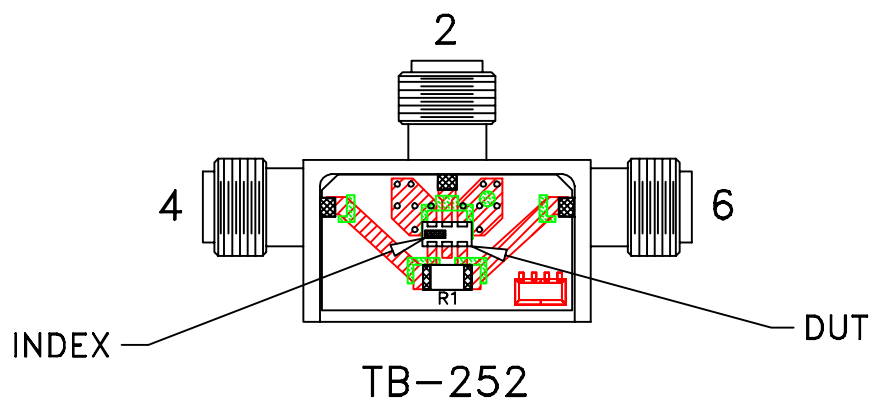
10:1

SHEET:

1 OF 1

Evaluation Board and Circuit

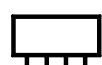
For Pin Connections refer to Data Sheet of the DUT



Schematic Diagram

Notes:

1. SMA Female connectors.
2. PCB Material: Rogers R04350 or equivalent,
Dielectric Constant=3.5, Thickness=.020 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	-55° to 100°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
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, Para 4.2.5, Test S, 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