

Surface Mount

Power Splitter/Combiner

2 Way-0° 75Ω 5 to 500 MHz

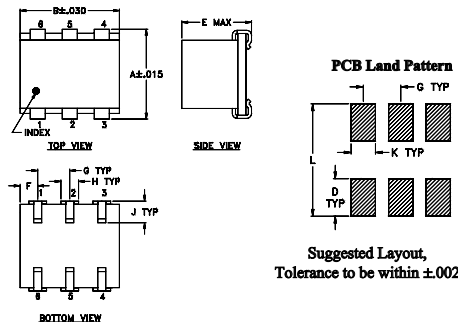
Maximum Ratings

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	2,5,6

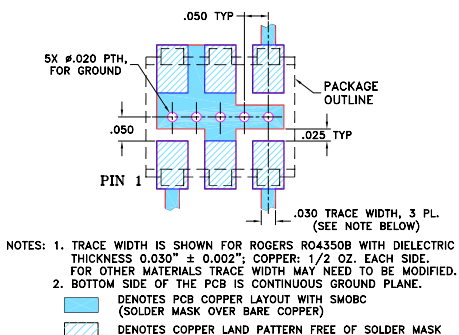
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	wt
.280	.310	--	.100	.225	.055	.100	.047	.065	.065	.300	grams
7.11	7.87	--	2.54	5.72	1.40	2.54	1.19	1.65	1.65	7.62	0.45

Demo Board MCL P/N: TB-169 Suggested PCB Layout (PL-054)



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, 0.15 dB typ.
- excellent insertion loss flatness, 0.2 dB peak to peak
- excellent amplitude unbalance, 0.05 dB typ.
- very good phase unbalance, 0.1 deg. typ.
- excellent VSWR 1.1:1 typ. all ports.
- J-leads for excellent solderability and strain relief

Applications

- cable tv
- UHF transmitters/receivers

Electrical Specifications

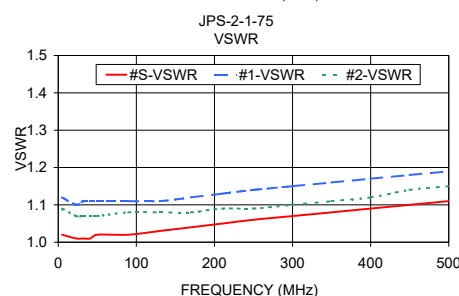
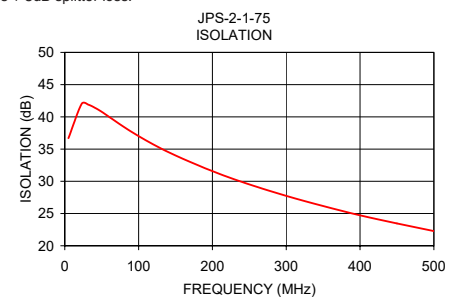
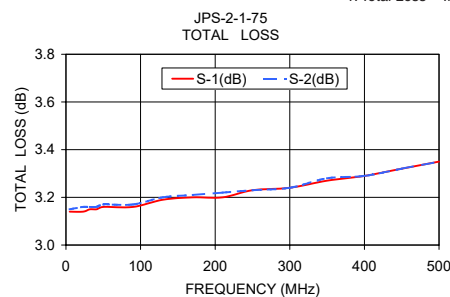
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f _c -f _u	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-500	25	18	35	20	20	18	0.15	0.5	0.15	0.7	0.25	0.7	1.0	2.0	3.0	0.1	0.2	0.4

L = 5-50 MHz M = 50-250 MHz U = 250-500 MHz

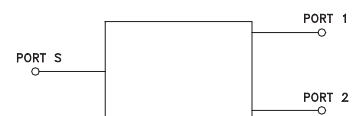
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
5.00	3.14	3.15	0.01	36.69	0.04	1.02	1.12	1.09
23.00	3.14	3.16	0.02	42.03	0.06	1.01	1.10	1.07
32.00	3.15	3.16	0.01	41.88	0.08	1.01	1.11	1.07
41.00	3.15	3.16	0.01	41.39	0.01	1.01	1.11	1.07
50.00	3.16	3.17	0.01	40.78	0.01	1.02	1.11	1.07
90.00	3.16	3.17	0.01	37.71	0.06	1.02	1.11	1.08
130.00	3.19	3.20	0.01	35.12	0.08	1.03	1.11	1.08
170.00	3.20	3.21	0.01	32.99	0.18	1.04	1.12	1.08
210.00	3.20	3.22	0.02	31.13	0.07	1.05	1.13	1.09
250.00	3.23	3.23	0.01	29.52	0.21	1.06	1.14	1.09
300.00	3.24	3.24	0.01	27.74	0.20	1.07	1.15	1.10
350.00	3.27	3.28	0.01	26.17	0.20	1.08	1.16	1.11
400.00	3.29	3.29	0.00	24.72	0.19	1.09	1.17	1.12
450.00	3.32	3.32	0.00	23.46	0.12	1.10	1.18	1.14
500.00	3.35	3.35	0.00	22.28	0.17	1.11	1.19	1.15

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



electrical schematic



2 Way-0° Power Splitter/Combiner

JPS-2-1-75

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	3.26	3.27	0.01	0.03	33.61	1.03	1.12	1.12
10	3.25	3.27	0.02	0.04	40.02	1.01	1.09	1.09
20	3.27	3.28	0.01	0.04	47.36	1.00	1.08	1.08
30	3.27	3.29	0.02	0.03	49.01	1.00	1.08	1.08
40	3.28	3.29	0.01	0.01	46.56	1.01	1.09	1.09
50	3.29	3.30	0.01	0.02	44.44	1.01	1.09	1.09
75	3.31	3.31	0.00	0.02	40.94	1.03	1.09	1.09
100	3.32	3.33	0.01	0.02	38.33	1.04	1.10	1.09
125	3.33	3.34	0.01	0.07	36.64	1.05	1.10	1.09
150	3.34	3.35	0.01	0.10	34.97	1.07	1.11	1.10
175	3.35	3.36	0.01	0.12	33.92	1.08	1.12	1.12
200	3.36	3.37	0.01	0.11	32.64	1.10	1.14	1.13
225	3.37	3.38	0.01	0.15	31.47	1.11	1.15	1.14
250	3.38	3.39	0.01	0.13	30.38	1.12	1.16	1.15
275	3.39	3.41	0.02	0.20	29.17	1.14	1.17	1.16
300	3.40	3.42	0.02	0.16	28.12	1.15	1.18	1.17
325	3.42	3.43	0.01	0.20	27.27	1.16	1.19	1.18
350	3.42	3.44	0.02	0.17	26.56	1.16	1.20	1.19
375	3.45	3.45	0.00	0.19	25.91	1.17	1.22	1.20
400	3.45	3.46	0.01	0.21	25.34	1.18	1.23	1.21
425	3.48	3.47	0.01	0.17	24.62	1.18	1.25	1.22
450	3.48	3.49	0.01	0.27	23.94	1.18	1.26	1.22
475	3.50	3.50	0.00	0.16	23.12	1.19	1.25	1.23
500	3.51	3.52	0.01	0.31	22.64	1.19	1.25	1.24
525	3.53	3.53	0.00	0.15	21.84	1.19	1.25	1.25
550	3.54	3.55	0.01	0.26	21.54	1.19	1.27	1.26
575	3.56	3.56	0.00	0.05	20.87	1.19	1.28	1.28
600	3.58	3.57	0.01	0.24	20.59	1.19	1.30	1.28
625	3.59	3.60	0.00	0.03	20.02	1.18	1.31	1.28
650	3.62	3.60	0.02	0.18	19.62	1.18	1.31	1.28
675	3.61	3.63	0.02	0.06	18.91	1.18	1.33	1.29
700	3.67	3.63	0.04	0.02	18.50	1.18	1.34	1.30
750	3.70	3.66	0.04	0.14	17.54	1.17	1.34	1.31
800	3.74	3.70	0.04	0.27	16.70	1.16	1.34	1.31
850	3.76	3.74	0.02	0.38	15.78	1.16	1.35	1.32
900	3.79	3.79	0.00	0.45	14.98	1.17	1.34	1.31
950	3.83	3.84	0.01	0.56	14.32	1.19	1.34	1.34
1000	3.87	3.89	0.02	0.74	13.74	1.20	1.35	1.35
1100	3.99	4.00	0.01	1.19	12.68	1.24	1.35	1.37
1200	4.13	4.16	0.03	1.74	11.96	1.29	1.35	1.39
1300	4.35	4.33	0.02	2.41	11.62	1.32	1.36	1.42
1400	4.64	4.56	0.09	3.58	11.27	1.33	1.34	1.44
1500	4.99	4.92	0.07	4.70	10.42	1.32	1.28	1.42
1600	5.43	5.41	0.03	5.72	9.36	1.32	1.22	1.40
1700	5.90	6.04	0.13	6.69	8.32	1.35	1.17	1.36
1800	6.37	6.70	0.34	7.26	7.38	1.45	1.18	1.34
1900	6.94	7.53	0.59	7.88	6.85	1.62	1.22	1.38
2000	7.60	8.68	1.08	9.58	6.68	1.74	1.27	1.45

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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Page 1 of 3



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Mini-Circuits®



2 Way-0° 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. (deg.)	ISOLATION (dB) 1-2	VSWR (:1)		
	S-1	S-2				S	1	2
5	3.26	3.27	0.01	0.05	25.52	1.05	1.21	1.21
10	3.20	3.22	0.02	0.05	29.63	1.03	1.11	1.11
20	3.19	3.20	0.01	0.02	33.60	1.02	1.05	1.05
30	3.20	3.21	0.01	0.02	35.13	1.02	1.03	1.02
40	3.20	3.22	0.02	0.01	35.74	1.02	1.02	1.01
50	3.21	3.22	0.01	0.03	35.82	1.03	1.01	1.01
75	3.22	3.23	0.01	0.05	35.19	1.04	1.02	1.01
100	3.22	3.24	0.02	0.05	33.97	1.05	1.04	1.03
125	3.23	3.24	0.01	0.09	32.96	1.06	1.07	1.05
150	3.24	3.25	0.01	0.12	31.75	1.07	1.08	1.07
175	3.25	3.26	0.01	0.12	30.98	1.08	1.08	1.07
200	3.25	3.27	0.02	0.13	29.99	1.08	1.10	1.09
225	3.26	3.27	0.01	0.17	29.13	1.09	1.12	1.12
250	3.27	3.28	0.01	0.17	28.23	1.10	1.14	1.14
275	3.28	3.29	0.01	0.23	27.31	1.11	1.15	1.14
300	3.28	3.30	0.02	0.23	26.36	1.12	1.17	1.15
325	3.30	3.30	0.00	0.27	25.63	1.13	1.18	1.17
350	3.30	3.31	0.01	0.24	25.01	1.14	1.20	1.19
375	3.32	3.32	0.00	0.27	24.47	1.15	1.21	1.21
400	3.32	3.33	0.01	0.28	23.96	1.17	1.23	1.22
425	3.34	3.33	0.01	0.28	23.37	1.18	1.26	1.23
450	3.34	3.35	0.01	0.39	22.72	1.19	1.29	1.25
475	3.36	3.35	0.01	0.28	22.02	1.20	1.29	1.26
500	3.36	3.36	0.00	0.44	21.55	1.20	1.28	1.28
525	3.38	3.37	0.01	0.26	20.80	1.21	1.28	1.29
550	3.39	3.38	0.01	0.41	20.51	1.21	1.31	1.31
575	3.40	3.39	0.01	0.19	19.87	1.22	1.34	1.34
600	3.42	3.39	0.02	0.42	19.62	1.22	1.36	1.35
625	3.42	3.41	0.01	0.10	19.08	1.22	1.37	1.35
650	3.45	3.41	0.03	0.37	18.71	1.22	1.38	1.35
675	3.43	3.44	0.01	0.12	18.04	1.22	1.39	1.36
700	3.49	3.43	0.06	0.23	17.66	1.22	1.40	1.37
750	3.51	3.45	0.06	0.09	16.76	1.22	1.42	1.39
800	3.53	3.48	0.06	0.05	15.96	1.21	1.41	1.39
850	3.54	3.50	0.04	0.13	15.07	1.21	1.40	1.37
900	3.55	3.54	0.01	0.16	14.32	1.21	1.37	1.37
950	3.59	3.59	0.00	0.22	13.72	1.22	1.36	1.37
1000	3.62	3.61	0.01	0.40	13.18	1.23	1.35	1.36
1100	3.71	3.70	0.01	0.82	12.22	1.25	1.31	1.33
1200	3.83	3.83	0.00	1.39	11.60	1.27	1.27	1.31
1300	4.02	3.98	0.04	2.01	11.34	1.27	1.29	1.34
1400	4.29	4.18	0.11	3.06	11.03	1.28	1.34	1.42
1500	4.66	4.53	0.14	4.13	10.15	1.33	1.40	1.49
1600	5.15	5.04	0.11	5.14	8.94	1.40	1.43	1.55
1700	5.61	5.67	0.06	6.07	7.76	1.44	1.40	1.57
1800	6.04	6.33	0.29	6.40	6.73	1.48	1.32	1.57
1900	6.54	7.09	0.55	6.48	6.19	1.60	1.20	1.60
2000	7.17	8.18	1.01	8.23	6.23	1.74	1.11	1.52

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
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Page 2 of 3



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2 Way-0° Power Splitter/Combiner

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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	3.32	3.34	0.02	0.05	35.00	1.03	1.14	1.14
10	3.31	3.33	0.02	0.06	40.96	1.02	1.12	1.12
20	3.33	3.34	0.01	0.04	43.37	1.01	1.12	1.12
30	3.33	3.35	0.02	0.05	42.24	1.01	1.13	1.13
40	3.20	3.36	0.01	0.02	40.95	1.01	1.14	1.14
50	3.35	3.36	0.01	0.01	40.08	1.01	1.15	1.15
75	3.37	3.38	0.01	0.02	38.68	1.03	1.15	1.15
100	3.39	3.40	0.01	0.05	37.63	1.04	1.13	1.13
125	3.39	3.41	0.02	0.09	36.60	1.06	1.12	1.12
150	3.41	3.42	0.01	0.12	35.68	1.07	1.13	1.12
175	3.42	3.43	0.01	0.14	34.83	1.09	1.15	1.14
200	3.43	3.44	0.01	0.14	33.71	1.11	1.16	1.16
225	3.44	3.46	0.02	0.20	32.49	1.12	1.16	1.16
250	3.45	3.47	0.02	0.19	31.47	1.13	1.16	1.16
275	3.47	3.49	0.02	0.25	30.15	1.15	1.17	1.16
300	3.48	3.51	0.03	0.23	29.15	1.16	1.18	1.17
325	3.49	3.51	0.02	0.26	28.25	1.16	1.19	1.18
350	3.50	3.53	0.03	0.24	27.54	1.17	1.20	1.18
375	3.52	3.54	0.02	0.26	26.88	1.17	1.20	1.19
400	3.53	3.55	0.02	0.27	26.27	1.17	1.22	1.20
425	3.56	3.57	0.01	0.26	25.47	1.17	1.23	1.20
450	3.56	3.59	0.03	0.34	24.78	1.18	1.24	1.20
475	3.58	3.60	0.02	0.25	23.92	1.17	1.23	1.20
500	3.59	3.62	0.03	0.36	23.42	1.17	1.23	1.21
525	3.62	3.63	0.01	0.22	22.58	1.17	1.22	1.22
550	3.63	3.65	0.02	0.32	22.27	1.17	1.24	1.23
575	3.65	3.67	0.02	0.13	21.56	1.17	1.26	1.24
600	3.67	3.68	0.01	0.30	21.26	1.16	1.27	1.25
625	3.68	3.71	0.03	0.03	20.66	1.16	1.28	1.25
650	3.72	3.72	0.00	0.24	20.22	1.16	1.28	1.25
675	3.71	3.75	0.04	0.01	19.48	1.15	1.30	1.25
700	3.77	3.75	0.02	0.09	19.05	1.15	1.30	1.27
750	3.81	3.79	0.02	0.07	18.04	1.15	1.31	1.28
800	3.85	3.84	0.01	0.23	17.17	1.14	1.32	1.29
850	3.88	3.88	0.00	0.35	16.20	1.15	1.33	1.30
900	3.91	3.93	0.02	0.45	15.20	1.16	1.32	1.30
950	3.96	4.00	0.03	0.58	14.67	1.18	1.33	1.33
1000	4.01	4.04	0.03	0.79	14.06	1.20	1.35	1.35
1100	4.14	4.18	0.04	1.28	12.95	1.25	1.36	1.37
1200	4.30	4.19	0.04	1.81	12.18	1.31	1.36	1.40
1300	4.53	4.53	0.00	2.43	11.81	1.36	1.37	1.43
1400	4.83	4.77	0.07	3.62	11.45	1.36	1.33	1.43
1500	5.18	5.12	0.06	4.72	10.64	1.34	1.26	1.40
1600	5.61	5.61	0.01	5.75	9.65	1.31	1.19	1.37
1700	6.07	6.22	0.14	6.76	8.67	1.34	1.14	1.32
1800	6.53	6.88	0.35	7.49	7.75	1.47	1.17	1.30
1900	7.13	7.71	0.58	8.18	7.20	1.67	1.25	1.36
2000	7.78	8.86	1.08	10.00	6.92	1.80	1.34	1.45

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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Page 3 of 3



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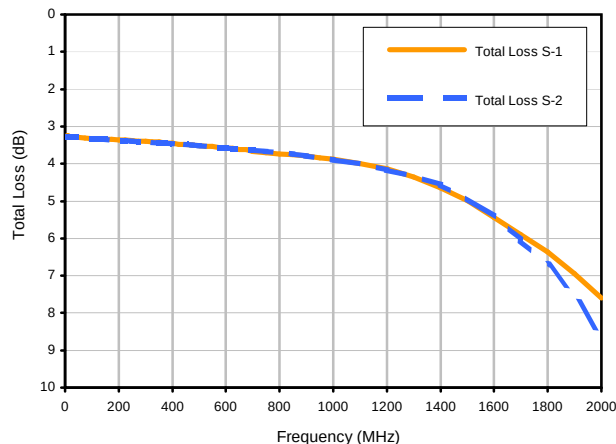


2 Way-0° Power Splitter/Combiner

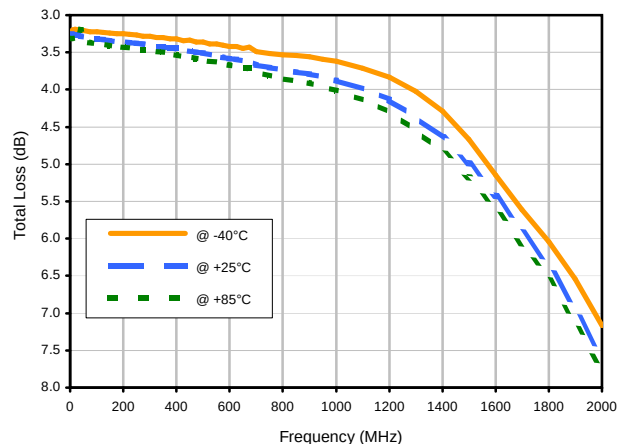
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Typical Performance Curves

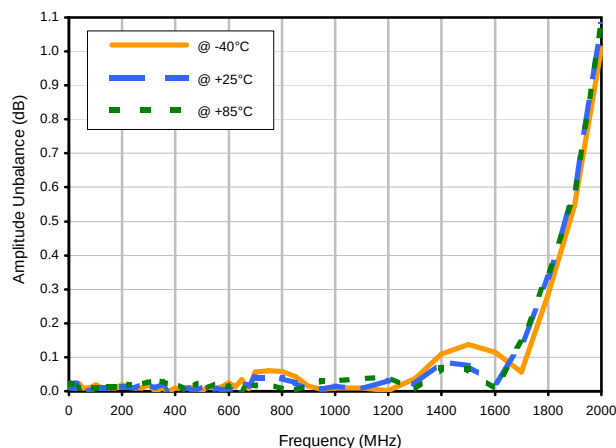
Total Loss



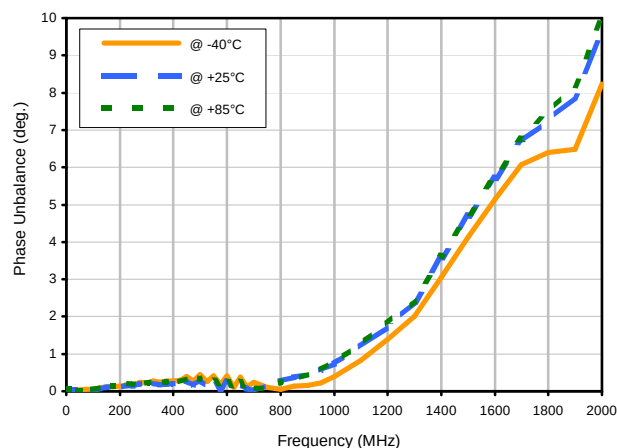
Total Loss S-1 vs. TEMPERATURE



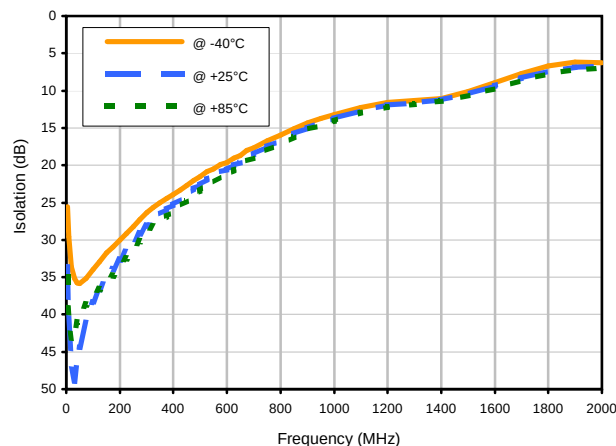
Amplitude Unbalance vs. TEMPERATURE



Phase Unbalance vs. TEMPERATURE



Isolation 1-2 vs. TEMPERATURE



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
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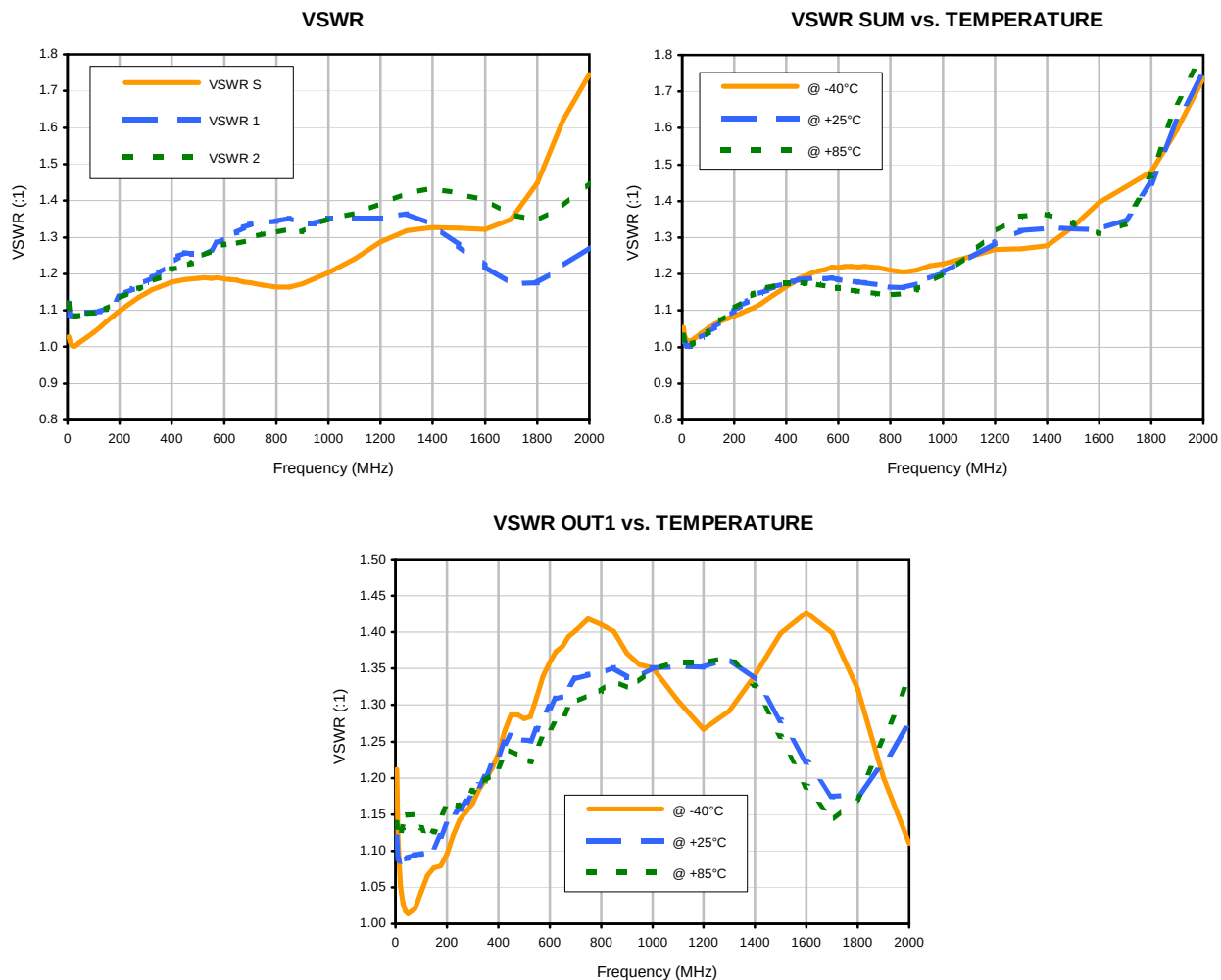


The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

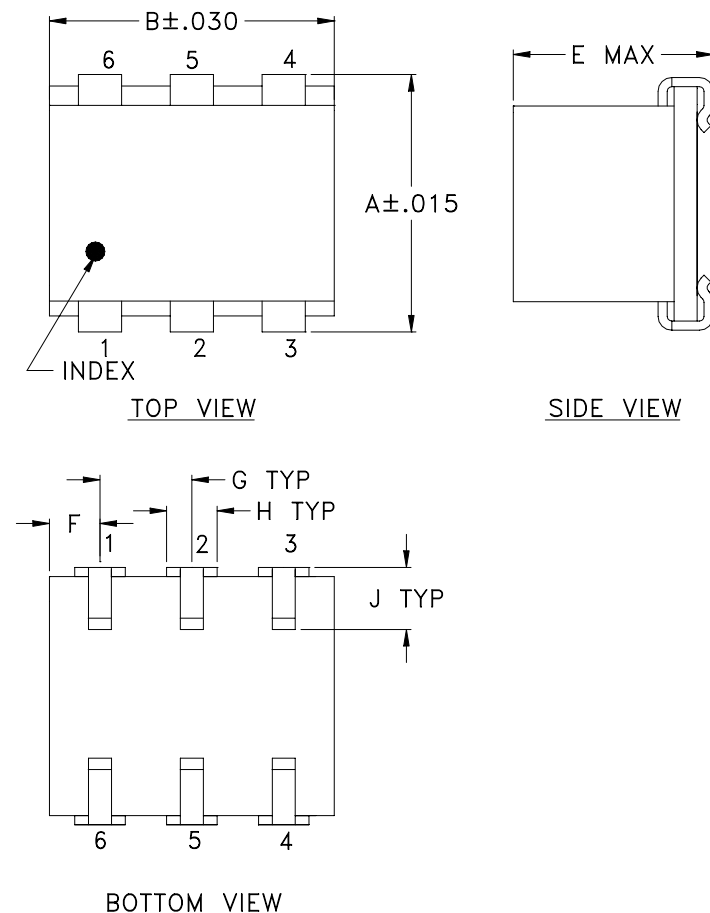


REV. X2
JPS-2-1-75
100623
Page 1 of 2

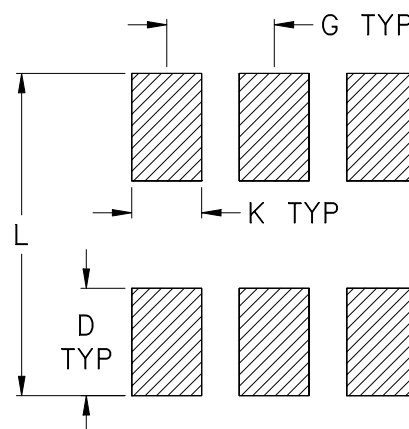
Typical Performance Curves



Outline Dimensions



PCB Land Pattern



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

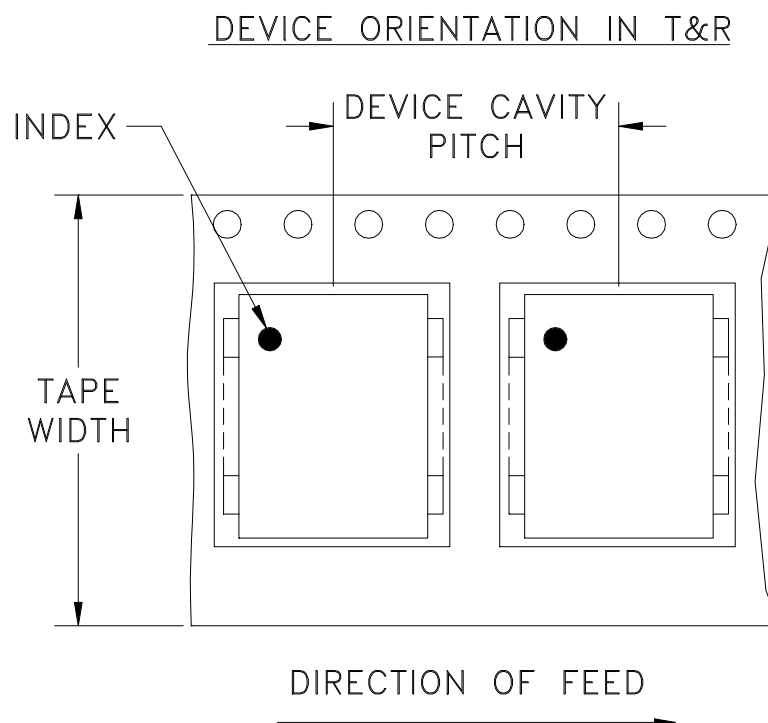
CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAM
BH292	.280 (7.11)	.310 (7.87)	- -	.100 (2.54)	.225 (5.72)	.055 (1.40)	.100 (2.54)	.047 (1.19)	.065 (1.65)	.065 (1.65)	.300 (7.62)	.45

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

Notes:

- Case material: Ceramic.
- 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.

Tape & Reel Packaging TR-F24



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
16	12	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



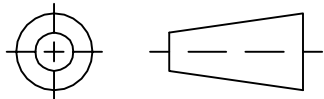
INTERNET <http://www.minicircuits.com>

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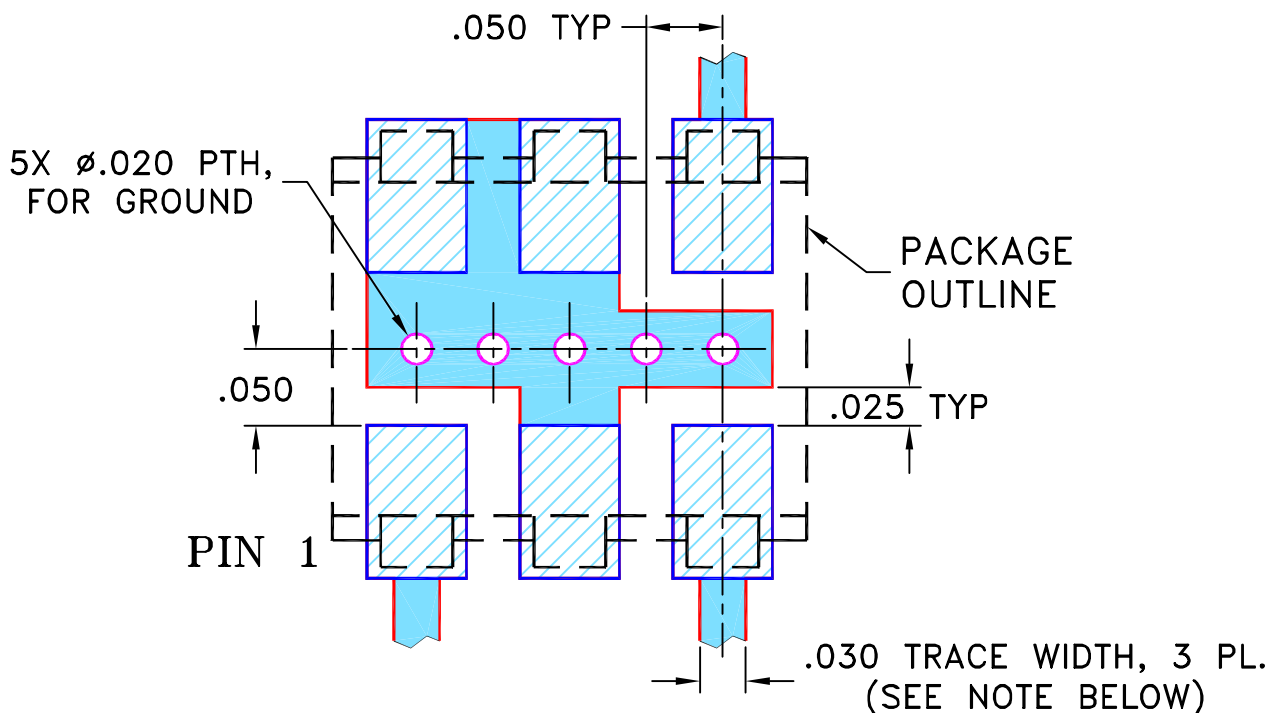
THIRD ANGLE PROJECTION



REVISIONS

REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
OR	M82272	NEW RELEASE	08/05/02	GF	DJ
A	M101117	UPDATED DWG.	11/21/05	MMG	HY
B	M102713	ADDED "...WITH SMOBC"	01/17/06	MMG	IL

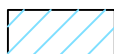
SUGGESTED MOUNTING CONFIGURATION
FOR BH292 CASE STYLE, "me" PIN CONNECTION



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.030" $\pm$ 0.002"; 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

GF

07/18/02

CHECKED

HY

08/01/02

APPROVED

DJ

08/05/02



Mini-Circuits® 13 Neptune Avenue
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PL, me, 75, BH292, JPS, TB-169

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

SIZE
A

CODE IDENT
15542

DRAWING NO:
98-PL-054

REV:
B

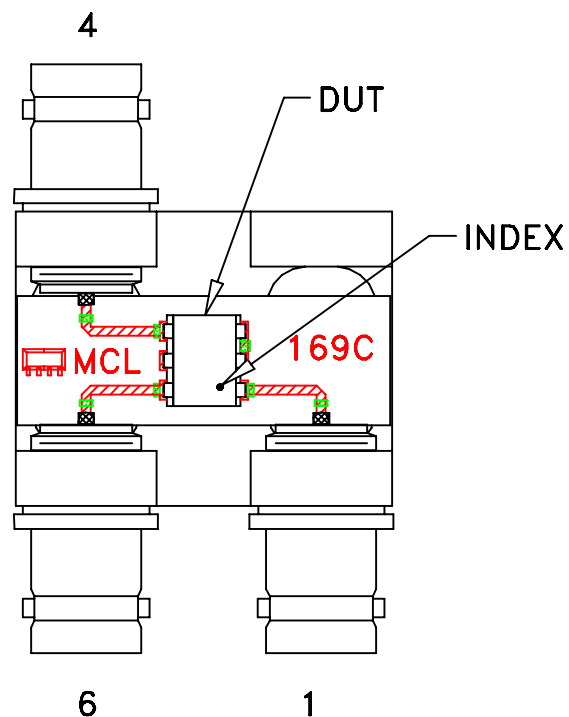
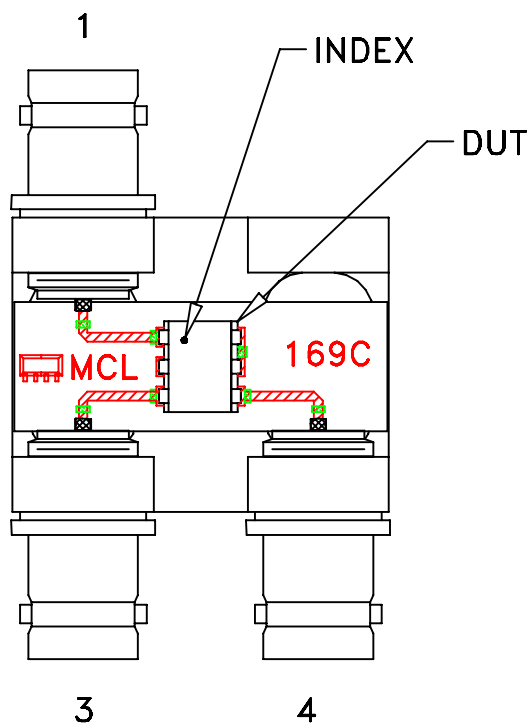
FILE: 98PL054

SCALE: 8:1

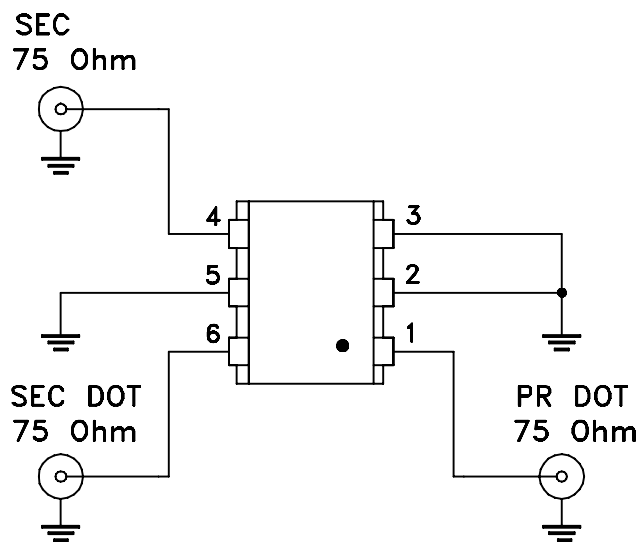
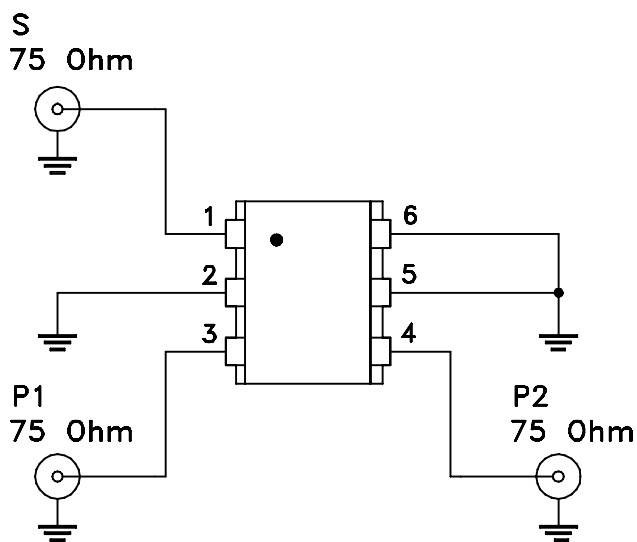
SHEET: 1 OF 1

Evaluation Board and Circuit

For Pin Connections and DUT Orientation Refer to
Data Sheet of the DUT



TB-169



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