



Mini-Circuits®

SURFACE MOUNT

Power Splitter/Combiner

SBTC-2-25+

2 Way-0° 50Ω 1000 to 2500 MHz

FEATURES

- Wideband Frequency, 1000 to 2500 MHz
- Excellent Amplitude Unbalance, 0.2 dB Typ.
- Small Size, 0.166x0.150x0.155"
- Temperature Stable LTCC Base
- Small Size
- Low Cost
- Aqueous Washable
- Protected by US Patent 6,963,255

APPLICATIONS

- PCN/PCS
- DECT
- PHS
- VSAT

For Model
with Leads see
SBTC-2-25L+



Generic photo used for illustration purposes only

CASE STYLE: AT790

+RoHS Compliant

The +Suffix identifies RoHS Compliance.
See our website for methodologies and qualifications

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		1000		2500	MHz
Insertion Loss, Above 3.0 dB	1000-2500		1.4	2.5	dB
	1400-1800		0.9	1.7	
	1800-2000		1.0	1.7	
Isolation	1000-2500	14	20		dB
	1400-1800	14	18		
	1800-2000	16	19		
Phase Unbalance	1000-2500			14	Degree
	1400-1800			8	
	1800-2000			8	
Amplitude Unbalance	1000-2500			1.2	dB
	1400-1800			0.7	
	1800-2000			0.8	

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
Power Input (as a Splitter)	1 W max.
Internal Dissipation	0.125 W max.

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

ELECTRICAL SCHEMATIC



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Power Splitter/Combiner

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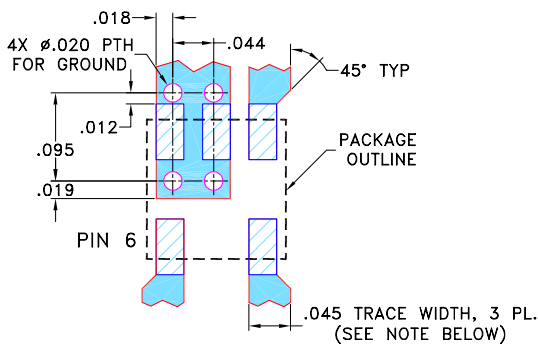
2 Way-0° 50Ω 1000 to 2500 MHz

PIN CONNECTIONS

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

PRODUCT MARKING: N/A

DEMO BOARD MCL P/N: TB-SBTC-2-25+
SUGGESTED PCB LAYOUT (PL-152)

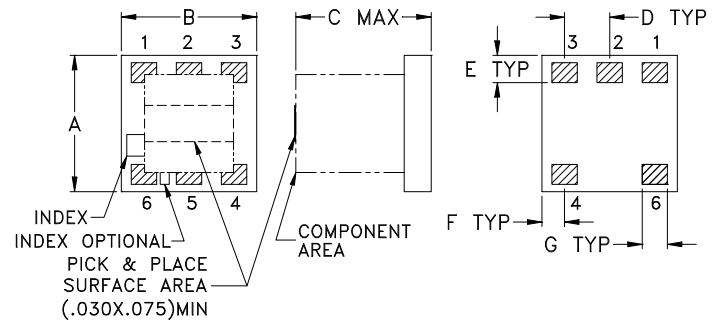


NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS $0.020" \pm 0.0015"$; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

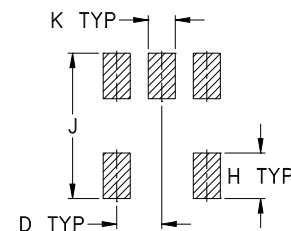
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

-  DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
-  DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

OUTLINE DRAWING



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.002

OUTLINE DIMENSIONS (Inches mm)

A	B	C	D	E	F	G	H	J	K	wt
.150	.150	.150	.050	.030	.025	.028	.050	.160	.030	grams
3.81	3.81	3.81	1.27	0.76	0.64	0.71	1.27	4.06	0.76	0.10

TAPE & REEL INFORMATION: F15



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SURFACE MOUNT

Power Splitter/Combiner

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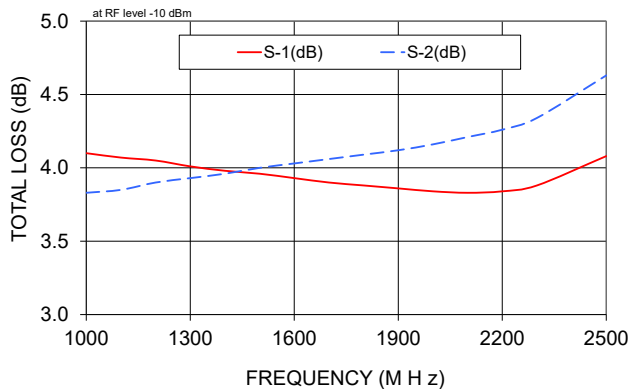
2 Way-0° 50Ω 1000 to 2500 MHz

TYPICAL PERFORMANCE DATA

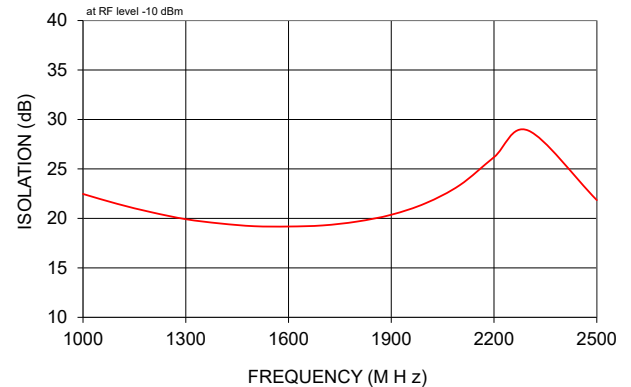
Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR (:1)		
	S-1	S-2				S	1	2
1000	4.10	3.83	0.28	22.47	2.79	1.72	1.68	1.57
1100	4.07	3.85	0.21	21.47	2.54	1.66	1.59	1.51
1200	4.05	3.90	0.15	20.62	2.39	1.61	1.51	1.46
1300	4.01	3.93	0.08	19.92	2.34	1.56	1.45	1.41
1400	3.98	3.96	0.04	19.49	2.36	1.51	1.39	1.36
1500	3.96	4.00	0.05	19.21	2.47	1.47	1.33	1.32
1600	3.93	4.03	0.10	19.18	2.66	1.42	1.28	1.27
1700	3.90	4.06	0.16	19.29	2.92	1.37	1.24	1.23
1800	3.88	4.09	0.21	19.68	3.28	1.32	1.21	1.18
1900	3.86	4.12	0.27	20.37	3.70	1.26	1.19	1.14
2000	3.84	4.16	0.32	21.53	4.23	1.20	1.18	1.10
2100	3.83	4.21	0.37	23.36	4.87	1.13	1.18	1.08
2200	3.84	4.26	0.42	26.19	5.57	1.06	1.18	1.10
2300	3.88	4.34	0.46	28.88	6.36	1.09	1.18	1.15
2500	4.08	4.63	0.55	21.85	8.22	1.39	1.15	1.30

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

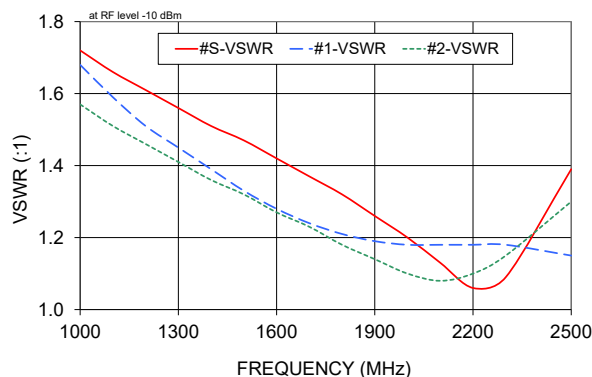
TOTAL LOSS



ISOLATION



VSWR



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/terms/viewterm.html



2 Way-0° Power Splitter/Combiner

SBTC-2-25+

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
300	5.50	4.08	1.42	5.95	26.95	3.03	4.31	3.13
400	4.89	3.77	1.12	5.22	29.95	2.44	3.15	2.44
500	4.56	3.63	0.93	4.30	31.04	2.15	2.57	2.07
600	4.37	3.57	0.80	3.49	28.99	1.97	2.22	1.85
700	4.25	3.54	0.71	2.69	26.51	1.86	1.99	1.69
800	4.17	3.55	0.63	1.96	24.34	1.78	1.83	1.58
900	4.13	3.55	0.57	1.41	22.69	1.73	1.72	1.50
1000	4.09	3.57	0.52	0.90	21.39	1.68	1.63	1.43
1050	4.08	3.59	0.49	0.62	20.80	1.66	1.59	1.40
1100	4.07	3.60	0.47	0.45	20.30	1.64	1.56	1.38
1200	4.05	3.63	0.42	0.08	19.44	1.61	1.50	1.33
1300	4.04	3.66	0.38	0.20	18.74	1.59	1.45	1.29
1400	4.03	3.69	0.34	0.43	18.22	1.56	1.41	1.25
1450	4.02	3.70	0.32	0.56	18.00	1.55	1.40	1.23
1500	4.02	3.72	0.30	0.64	17.83	1.54	1.38	1.21
1600	4.01	3.75	0.26	0.77	17.55	1.52	1.35	1.18
1700	4.00	3.78	0.22	0.81	17.40	1.50	1.33	1.15
1800	4.00	3.80	0.19	0.83	17.38	1.48	1.31	1.13
1850	3.99	3.81	0.17	0.79	17.44	1.47	1.30	1.12
1900	3.98	3.83	0.16	0.76	17.51	1.45	1.29	1.11
2000	3.97	3.85	0.13	0.65	17.77	1.42	1.28	1.09
2050	3.97	3.85	0.11	0.56	17.94	1.40	1.27	1.08
2100	3.96	3.86	0.09	0.46	18.17	1.38	1.26	1.08
2200	3.95	3.88	0.07	0.19	18.71	1.33	1.25	1.06
2300	3.94	3.89	0.05	0.11	19.32	1.27	1.23	1.04
2400	3.95	3.91	0.03	0.46	19.88	1.22	1.20	1.02
2450	3.95	3.93	0.02	0.67	20.00	1.19	1.19	1.02
2500	3.97	3.95	0.02	0.90	19.96	1.18	1.17	1.03
2600	4.03	4.02	0.00	1.31	19.18	1.21	1.13	1.08
2700	4.15	4.14	0.01	1.79	17.56	1.33	1.07	1.14
2800	4.35	4.34	0.00	2.22	15.57	1.52	1.01	1.23
2900	4.66	4.65	0.01	2.61	13.63	1.80	1.06	1.33
3000	5.10	5.09	0.01	2.93	11.93	2.17	1.14	1.46
3100	5.68	5.67	0.01	3.21	10.51	2.66	1.23	1.60
3200	6.39	6.38	0.01	3.26	9.40	3.28	1.32	1.74
3300	7.23	7.22	0.01	3.27	8.54	4.03	1.41	1.88
3400	8.14	8.14	0.00	2.93	7.89	4.91	1.48	2.01
3500	9.11	9.12	0.01	2.31	7.39	5.88	1.55	2.12

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-0° Power Splitter/Combiner

SBTC-2-25+

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
300	5.48	4.05	1.43	6.31	27.12	3.06	4.38	3.16
400	4.90	3.77	1.12	5.61	30.73	2.51	3.24	2.51
500	4.54	3.61	0.94	4.74	31.68	2.19	2.63	2.12
600	4.34	3.53	0.81	4.04	29.20	2.01	2.28	1.88
700	4.21	3.49	0.72	3.38	26.60	1.90	2.05	1.72
800	4.10	3.47	0.62	2.83	24.50	1.80	1.86	1.61
900	4.05	3.48	0.57	2.36	22.58	1.75	1.74	1.52
1000	4.01	3.49	0.52	1.88	21.30	1.71	1.66	1.45
1050	3.99	3.50	0.49	1.70	20.72	1.69	1.62	1.44
1100	3.98	3.52	0.47	1.56	20.20	1.68	1.60	1.41
1200	3.96	3.54	0.42	1.32	19.42	1.64	1.54	1.37
1300	3.93	3.56	0.38	1.12	18.71	1.61	1.49	1.32
1400	3.91	3.57	0.34	0.98	18.17	1.58	1.44	1.27
1450	3.90	3.58	0.31	0.90	17.94	1.56	1.41	1.24
1500	3.88	3.59	0.29	0.86	17.79	1.55	1.39	1.22
1600	3.86	3.61	0.25	0.84	17.58	1.51	1.35	1.19
1700	3.84	3.62	0.21	0.88	17.40	1.48	1.31	1.15
1800	3.81	3.64	0.18	0.97	17.41	1.44	1.28	1.11
1850	3.80	3.64	0.16	1.01	17.46	1.43	1.28	1.09
1900	3.80	3.65	0.14	1.06	17.50	1.42	1.27	1.08
2000	3.77	3.66	0.11	1.22	17.75	1.37	1.24	1.06
2050	3.77	3.67	0.10	1.35	17.89	1.36	1.23	1.05
2100	3.76	3.68	0.09	1.45	18.06	1.34	1.23	1.05
2200	3.76	3.69	0.06	1.77	18.53	1.30	1.22	1.05
2300	3.75	3.71	0.04	2.15	19.01	1.26	1.21	1.04
2400	3.77	3.73	0.04	2.59	19.41	1.22	1.21	1.03
2450	3.77	3.74	0.02	2.86	19.48	1.20	1.20	1.02
2500	3.78	3.76	0.02	3.12	19.46	1.19	1.19	1.03
2600	3.83	3.81	0.02	3.65	18.85	1.20	1.17	1.04
2700	3.92	3.90	0.02	4.28	17.50	1.29	1.12	1.09
2800	4.08	4.06	0.03	4.84	15.72	1.45	1.07	1.18
2900	4.34	4.30	0.04	5.35	13.85	1.68	1.03	1.28
3000	4.73	4.69	0.04	5.94	12.13	2.03	1.10	1.43
3100	5.29	5.25	0.04	6.41	10.66	2.53	1.20	1.61
3200	6.00	5.97	0.02	6.71	9.48	3.18	1.31	1.78
3300	6.86	6.84	0.02	6.88	8.58	4.03	1.43	1.97
3400	7.84	7.85	0.02	6.78	7.88	5.09	1.54	2.13
3500	8.86	8.91	0.05	6.32	7.37	6.29	1.64	2.27

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-0° Power Splitter/Combiner

SBTC-2-25+

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
300	5.51	4.10	1.41	5.77	26.71	3.01	4.28	3.12
400	4.87	3.76	1.12	5.02	29.29	2.38	3.09	2.40
500	4.56	3.63	0.93	4.06	30.59	2.09	2.52	2.03
600	4.37	3.58	0.80	3.14	28.91	1.92	2.17	1.81
700	4.26	3.56	0.70	2.31	26.50	1.82	1.95	1.66
800	4.20	3.58	0.62	1.51	24.30	1.74	1.79	1.55
900	4.15	3.59	0.56	0.89	22.65	1.69	1.68	1.47
1000	4.13	3.62	0.52	0.29	21.34	1.65	1.60	1.40
1050	4.12	3.64	0.49	0.01	20.73	1.63	1.56	1.38
1100	4.12	3.66	0.46	0.22	20.20	1.62	1.53	1.35
1200	4.11	3.69	0.42	0.64	19.35	1.59	1.47	1.31
1300	4.11	3.73	0.38	1.00	18.63	1.58	1.44	1.27
1400	4.11	3.77	0.34	1.27	18.13	1.57	1.41	1.24
1450	4.12	3.80	0.32	1.42	17.92	1.56	1.40	1.23
1500	4.12	3.82	0.30	1.54	17.74	1.56	1.39	1.21
1600	4.13	3.86	0.26	1.69	17.46	1.55	1.37	1.19
1700	4.12	3.89	0.23	1.80	17.34	1.54	1.35	1.17
1800	4.12	3.93	0.19	1.85	17.33	1.52	1.34	1.15
1850	4.12	3.94	0.18	1.87	17.42	1.51	1.34	1.15
1900	4.12	3.96	0.16	1.84	17.50	1.50	1.33	1.14
2000	4.11	3.98	0.13	1.78	17.82	1.47	1.33	1.13
2050	4.11	3.99	0.12	1.67	18.03	1.45	1.32	1.12
2100	4.10	4.00	0.10	1.58	18.31	1.43	1.31	1.11
2200	4.08	4.01	0.07	1.35	18.97	1.37	1.29	1.09
2300	4.07	4.02	0.05	1.01	19.75	1.30	1.26	1.05
2400	4.07	4.05	0.02	0.69	20.50	1.22	1.22	1.01
2450	4.07	4.06	0.01	0.47	20.69	1.19	1.19	1.02
2500	4.09	4.09	0.00	0.28	20.61	1.18	1.17	1.05
2600	4.16	4.18	0.02	0.08	19.52	1.23	1.10	1.11
2700	4.31	4.34	0.03	0.49	17.56	1.38	1.04	1.20
2800	4.56	4.60	0.04	0.80	15.37	1.62	1.05	1.29
2900	4.94	4.98	0.05	1.07	13.38	1.94	1.13	1.41
3000	5.45	5.50	0.05	1.26	11.72	2.37	1.22	1.54
3100	6.07	6.12	0.05	1.47	10.37	2.89	1.31	1.66
3200	6.80	6.85	0.05	1.31	9.32	3.51	1.39	1.77
3300	7.63	7.66	0.03	1.13	8.51	4.23	1.46	1.88
3400	8.50	8.53	0.03	0.65	7.89	5.01	1.51	1.98
3500	9.40	9.42	0.03	0.15	7.41	5.84	1.55	2.05

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

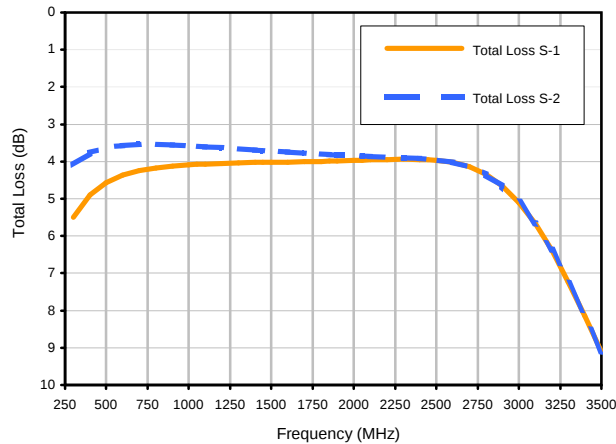
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2 Way-0° Power Splitter/Combiner

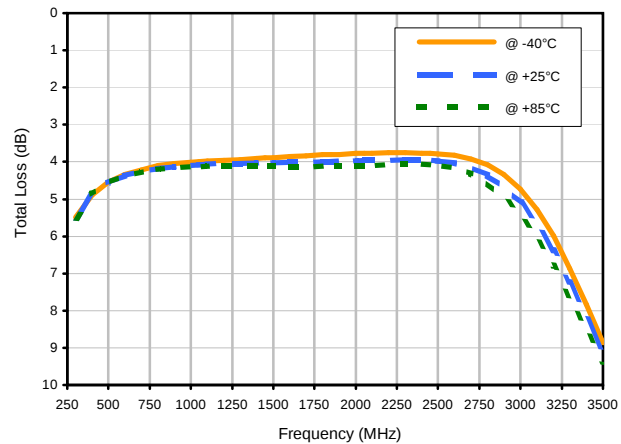
SBTC-2-25+

Typical Performance Curves

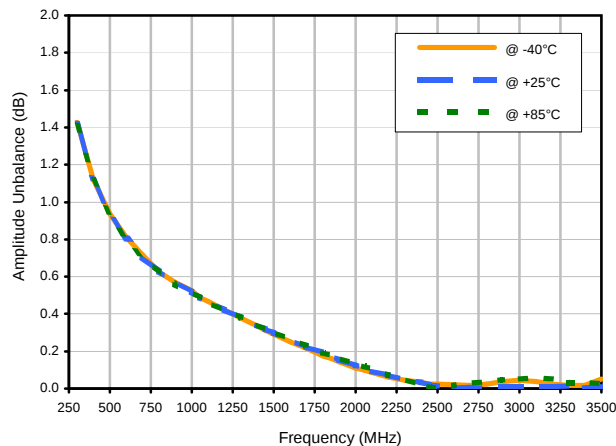
Total Loss



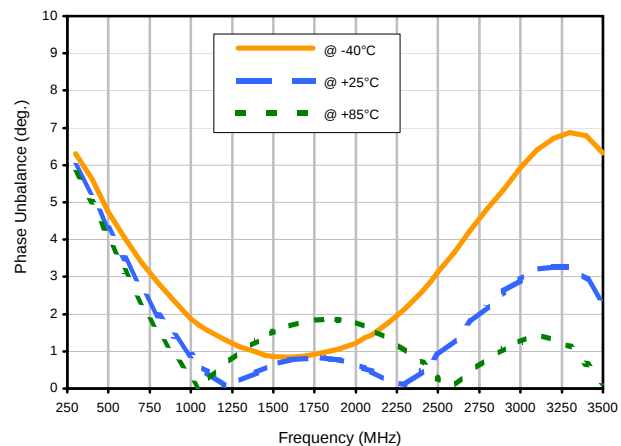
Total Loss S-1 vs. TEMPERATURE



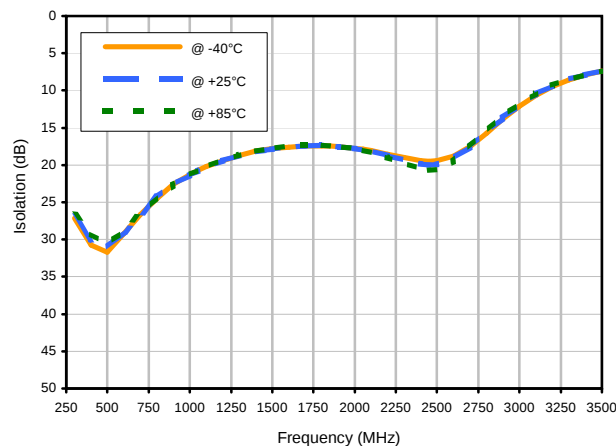
Amplitude Unbalance vs. TEMPERATURE



Phase Unbalance vs. TEMPERATURE



Isolation 1-2 vs. TEMPERATURE



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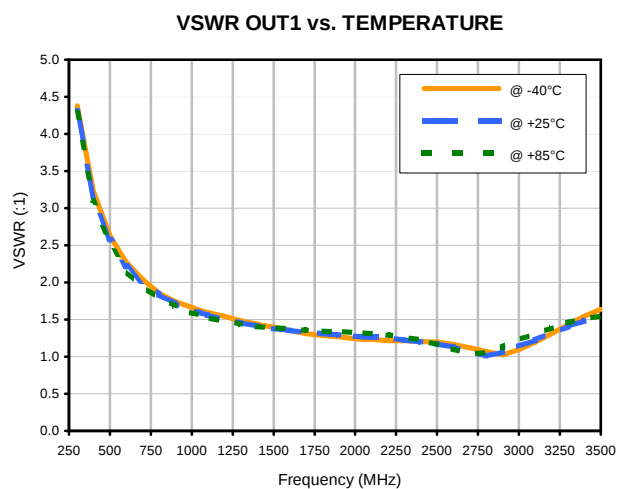
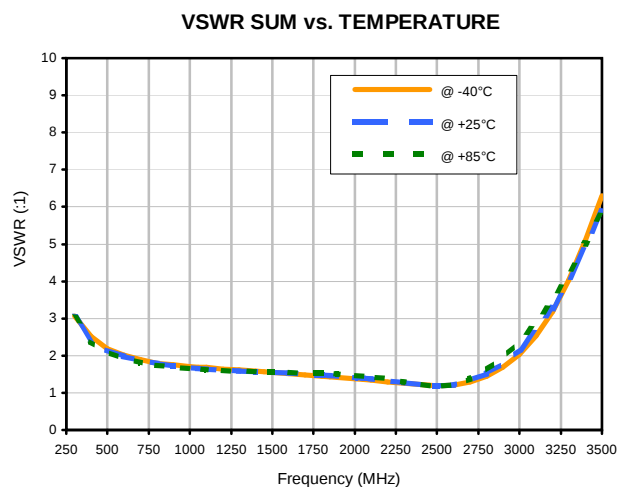
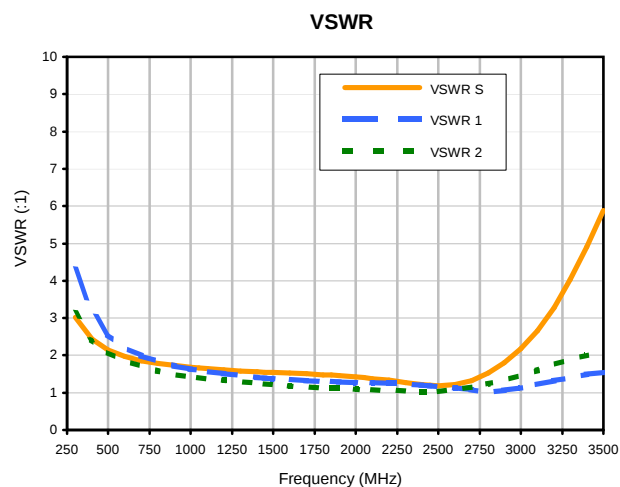
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P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

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

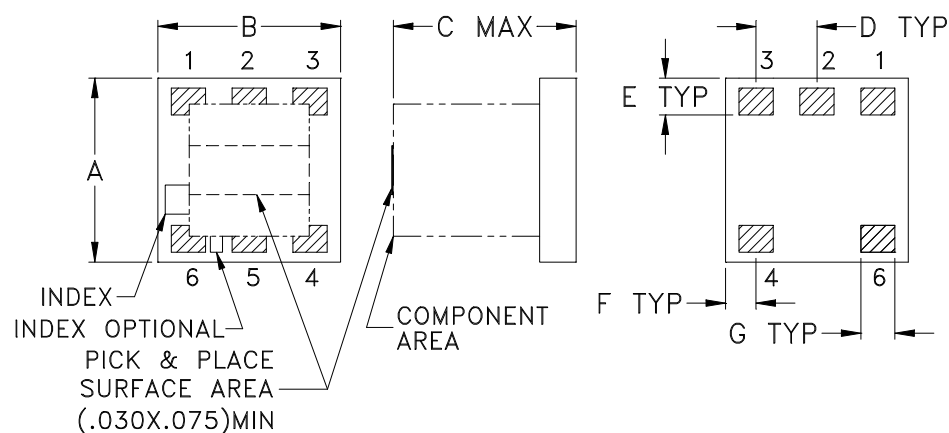


Typical Performance Curves

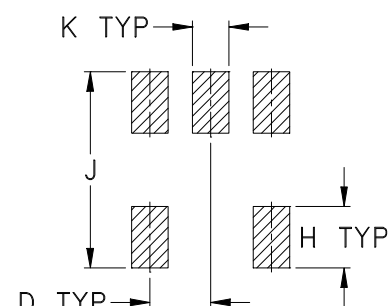


Outline Dimensions

AT790



PCB Land Pattern



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

CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAMS
AT790	.150 (3.81)	.150 (3.81)	.150 (3.81)	.050 (1.27)	.030 (0.76)	.025 (0.64)	.028 (0.71)	.050 (1.27)	.160 (4.06)	.030 (0.76)	-- --	.10

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

Notes:

1. Open style, Ceramic base.
2. Termination finish: Silver palladium or gold over nickel based on stock availability.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

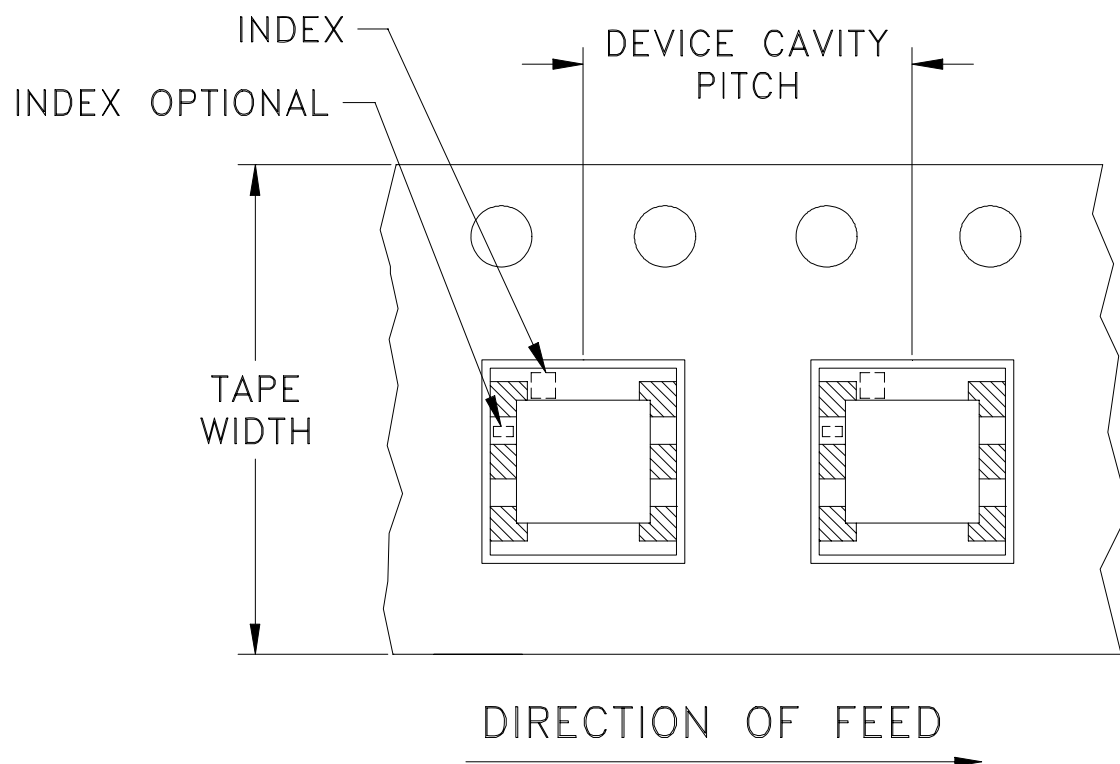


The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F15

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
12	8	7	20
			50
			100
			200
		13	500
			1000
			2000

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



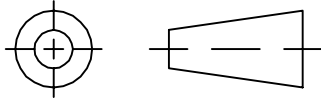
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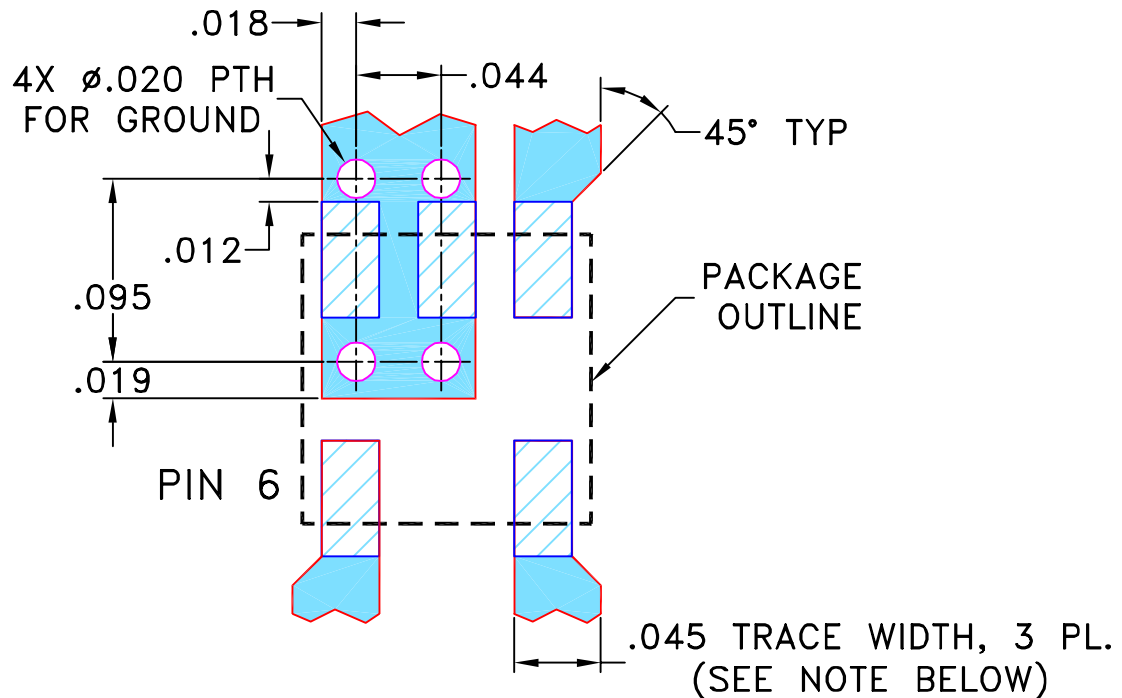
THIRD ANGLE PROJECTION



REVISIONS

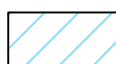
REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
OR	M90456	NEW RELEASE	01/16/04	AV	WP
A	M102713	ADDED "...WITH SMOBC"	01/12/06	GF	IL

SUGGESTED MOUNTING CONFIGURATION FOR
AT1029 CASE STYLE, "nc" PIN CONNECTION



- NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B 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 $\pm$.005
ANGLES $\pm$
FRACTIONS $\pm$

DRAWN

AV

01/07/04

CHECKED

IL

01/16/04

APPROVED

WP

01/16/04

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



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Brooklyn NY 11235

PL, nc, AT1029, SBTC, TB-274

SIZE
A

CODE IDENT
15542

DRAWING NO:
98-PL-152

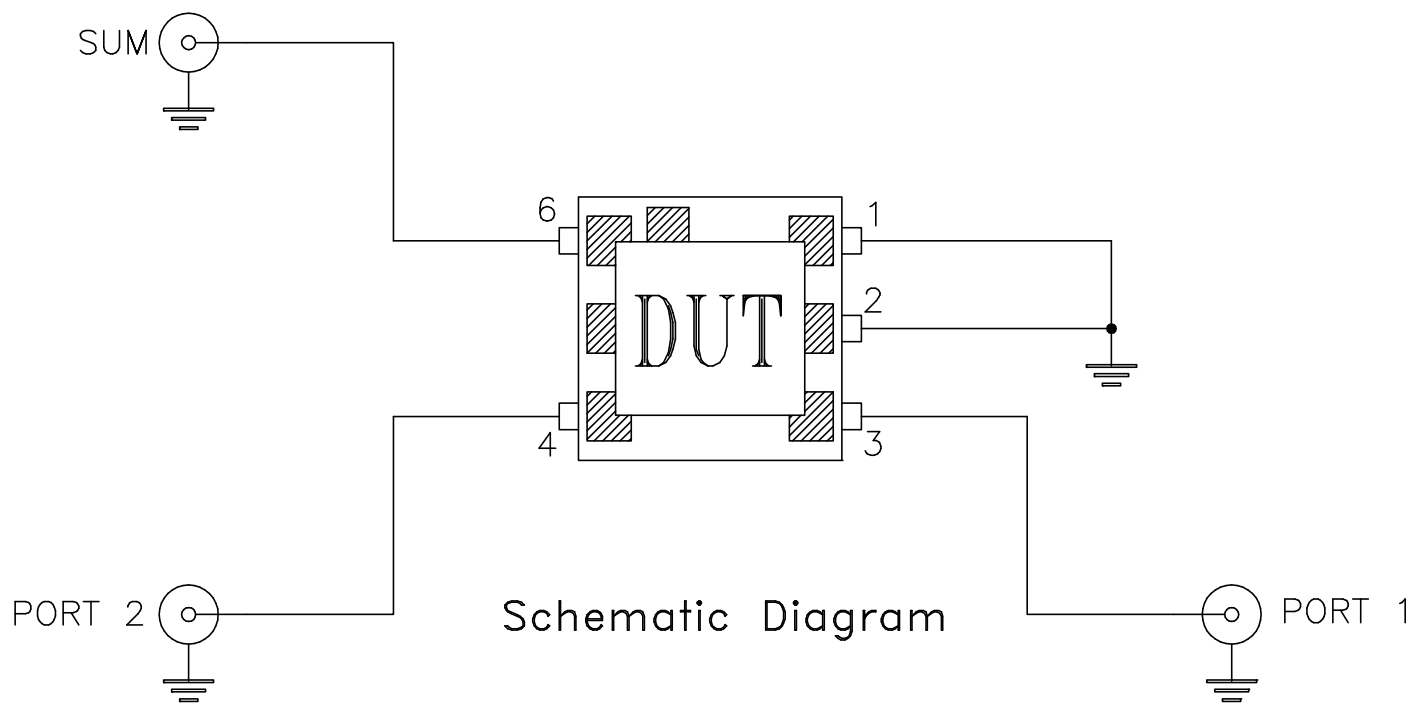
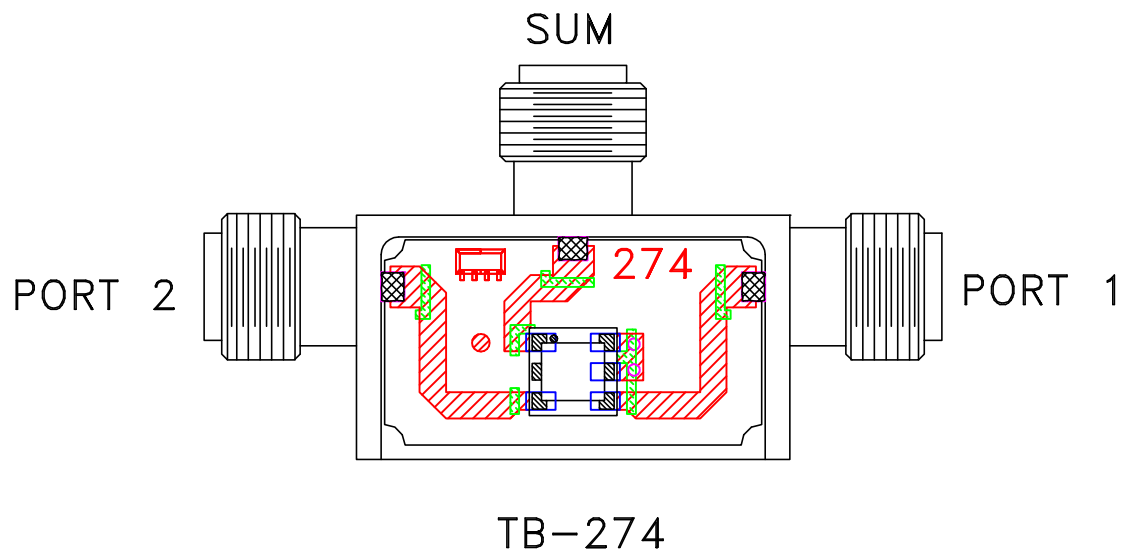
REV:
A

FILE: 98PL152

SCALE: 10:1

SHEET: 1 OF 1

Evaluation Board and Circuit



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	-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