

JPS-3-1W+



CASE STYLE: BH292

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.

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

SUM PORT	1
PORT 1	6
PORT 2	4
PORT 3	3
GROUND	2.5

Figure 1: Dimensions and suggested layout for the PCB.

The figure illustrates the dimensions and suggested layout for the PCB, showing four views: Top View, Side View, Bottom View, and a Suggested Layout.

Top View: Shows the overall dimensions of the PCB. The width is 86.030, the height is 45.015, and the central cutout width is 6. The bottom edge features an INDEX mark.

Side View: Shows the thickness of the PCB, labeled E MAX.

Bottom View: Shows the component layout. The layout includes components labeled F, G TYP, H TYP, J TYP, and K TYP. The dimensions for these components are indicated by arrows.

Suggested Layout: Shows the component layout with dimensions L, D TYP, G TYP, and K TYP. The layout is designed to fit within the specified dimensions.

Tolerance: The tolerance for all dimensions is within ± 0.002 .

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

Figure 1: Dimensions of the package. The diagram shows a top view of a square package with a central square pad. Key dimensions and features include:

- Central pad width: .100 2 PL.
- Side pad width: .170 2 PL.
- Gap between pads: .025
- Trace width: .064 TRACE WIDTH, 4 PL.
- Distance from pad center to package edge: .025 TYP
- Package outline: Dashed line labeled "PACKAGE OUTLINE"
- Ground pads: 5X .Ø.020 PTH FOR GROUND
- Pin 1: Labeled "PIN 1"

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE.
2. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
3. 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

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/MC/Store/terms_iso

- wideband, 50 to 750 MHz
- low insertion loss, 0.4 dB typ.
- solder plated J-leads

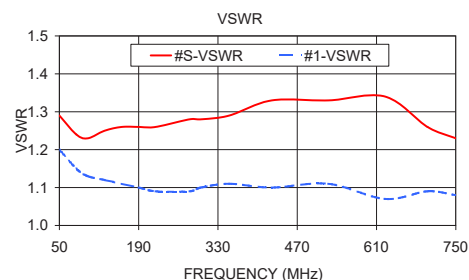
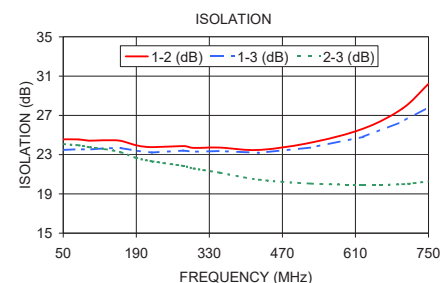
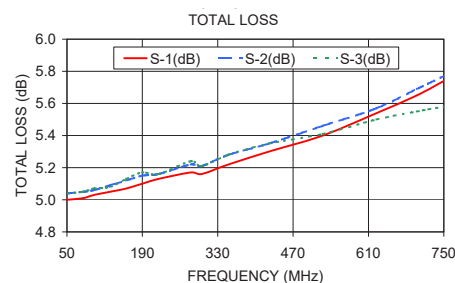
- VHF/UHF
- defense & federal communications

FREQ. RANGE (MHz)	ISOLATION (dB)				INSERTION LOSS (dB) ABOVE 4.8 dB				PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
	L		U		L		U		L	U	L	U
	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.
50-750	23	17	25	17	0.4	1.0	0.9	1.4	6	7	0.3	0.6

L = low range [f_i to $f_i/2$] U= upper range [$f_i/2$ to f_i]

Freq. (MHz)	Total Loss¹ (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
50.00	5.00	5.04	5.04	0.04	24.56	23.48	24.08	0.21	1.29	1.20	1.18	1.20
80.00	5.01	5.05	5.05	0.04	24.55	23.55	23.95	0.31	1.24	1.15	1.14	1.15
100.00	5.03	5.06	5.07	0.04	24.43	23.52	23.76	0.51	1.23	1.13	1.13	1.12
130.00	5.05	5.09	5.08	0.04	24.47	23.65	23.56	0.60	1.25	1.12	1.13	1.11
160.00	5.07	5.12	5.13	0.06	24.41	23.68	23.24	0.67	1.26	1.11	1.12	1.10
190.00	5.10	5.15	5.17	0.07	23.95	23.40	22.67	0.78	1.26	1.10	1.11	1.11
220.00	5.13	5.16	5.16	0.04	23.77	23.21	22.32	0.91	1.26	1.09	1.09	1.11
280.00	5.17	5.22	5.24	0.07	23.87	23.42	21.85	1.07	1.28	1.09	1.10	1.10
300.00	5.16	5.21	5.21	0.05	23.69	23.30	21.59	0.99	1.28	1.10	1.11	1.10
350.00	5.22	5.28	5.28	0.06	23.72	23.37	21.16	1.13	1.29	1.11	1.12	1.12
425.00	5.30	5.35	5.35	0.05	23.48	23.19	20.45	1.21	1.33	1.10	1.12	1.12
525.00	5.40	5.46	5.41	0.06	24.23	23.73	20.05	1.32	1.33	1.11	1.10	1.08
625.00	5.54	5.57	5.50	0.08	25.65	24.82	19.93	1.29	1.34	1.07	1.06	1.05
700.00	5.65	5.69	5.55	0.14	27.70	26.38	19.99	1.28	1.26	1.09	1.07	1.06
750.00	5.74	5.77	5.58	0.19	30.21	27.84	20.28	1.05	1.23	1.08	1.04	1.07

1. Total Loss = Insertion Loss + 4.8dB splitter loss.



3 Way-0° Power Splitter/Combiner

JPS-3-1W+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION			VSWR			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
10	5.75	5.79	5.81	0.06	0.28	21.43	21.70	21.05	2.40	1.77	1.73	1.77
20	5.17	5.20	5.22	0.05	0.35	22.71	22.46	22.37	1.64	1.40	1.39	1.41
30	5.05	5.08	5.10	0.05	0.38	23.19	22.82	22.83	1.45	1.29	1.29	1.30
40	5.01	5.04	5.07	0.06	0.43	23.45	23.05	23.05	1.37	1.24	1.24	1.25
50	5.00	5.04	5.06	0.05	0.47	23.61	23.21	23.16	1.33	1.21	1.20	1.22
60	5.00	5.04	5.05	0.05	0.54	23.71	23.32	23.21	1.31	1.19	1.18	1.20
70	5.00	5.05	5.06	0.06	0.61	23.78	23.40	23.21	1.29	1.17	1.17	1.18
80	5.01	5.05	5.07	0.06	0.65	23.83	23.47	23.20	1.28	1.16	1.16	1.17
90	5.02	5.06	5.08	0.06	0.71	23.84	23.50	23.14	1.27	1.15	1.15	1.16
100	5.03	5.06	5.08	0.05	0.75	23.83	23.50	23.04	1.27	1.15	1.14	1.15
125	5.04	5.08	5.11	0.06	0.93	23.73	23.45	22.77	1.27	1.13	1.13	1.14
150	5.06	5.11	5.13	0.06	1.02	23.66	23.41	22.50	1.27	1.13	1.12	1.13
175	5.08	5.13	5.15	0.07	1.13	23.54	23.34	22.21	1.28	1.12	1.11	1.12
200	5.10	5.15	5.17	0.07	1.23	23.44	23.26	21.91	1.28	1.12	1.11	1.11
225	5.13	5.17	5.19	0.07	1.26	23.37	23.21	21.66	1.29	1.12	1.10	1.10
250	5.14	5.18	5.21	0.07	1.35	23.33	23.20	21.42	1.30	1.12	1.10	1.10
275	5.17	5.21	5.23	0.07	1.43	23.28	23.15	21.18	1.31	1.12	1.10	1.10
300	5.18	5.22	5.24	0.06	1.49	23.22	23.09	20.95	1.31	1.11	1.09	1.09
325	5.21	5.24	5.27	0.06	1.54	23.22	23.07	20.74	1.32	1.11	1.09	1.09
350	5.23	5.25	5.28	0.05	1.59	23.22	23.05	20.55	1.33	1.11	1.09	1.08
375	5.25	5.27	5.30	0.05	1.66	23.27	23.06	20.38	1.33	1.11	1.09	1.08
400	5.27	5.28	5.31	0.03	1.72	23.32	23.09	20.24	1.33	1.11	1.08	1.08
425	5.30	5.30	5.32	0.03	1.73	23.41	23.13	20.11	1.33	1.11	1.08	1.07
450	5.32	5.32	5.34	0.02	1.77	23.53	23.18	20.00	1.33	1.11	1.07	1.07
475	5.34	5.33	5.35	0.02	1.79	23.69	23.27	19.92	1.33	1.11	1.07	1.07
500	5.37	5.34	5.36	0.03	1.81	23.91	23.38	19.88	1.33	1.10	1.07	1.06
525	5.39	5.36	5.37	0.03	1.79	24.19	23.55	19.86	1.32	1.10	1.06	1.06
550	5.41	5.37	5.37	0.04	1.79	24.54	23.76	19.88	1.31	1.10	1.05	1.06
575	5.44	5.39	5.38	0.06	1.78	24.97	24.02	19.92	1.30	1.09	1.05	1.06
600	5.47	5.40	5.39	0.08	1.74	25.52	24.34	20.00	1.28	1.09	1.04	1.05
625	5.50	5.42	5.40	0.10	1.70	26.23	24.75	20.13	1.26	1.08	1.03	1.05
650	5.53	5.43	5.40	0.13	1.67	27.12	25.27	20.30	1.24	1.08	1.02	1.05
675	5.57	5.45	5.41	0.16	1.61	28.25	25.89	20.52	1.21	1.07	1.02	1.05
700	5.61	5.47	5.42	0.19	1.52	29.79	26.69	20.77	1.18	1.07	1.01	1.05
725	5.65	5.50	5.43	0.22	1.74	31.96	27.68	21.06	1.15	1.07	1.01	1.05
750	5.70	5.53	5.45	0.25	2.04	35.37	28.98	21.38	1.12	1.07	1.03	1.05
775	5.76	5.58	5.47	0.29	2.31	41.98	30.73	21.71	1.08	1.08	1.04	1.05
800	5.84	5.63	5.51	0.33	2.67	46.78	33.08	22.01	1.07	1.09	1.06	1.06
825	5.93	5.71	5.56	0.37	3.14	36.13	36.12	22.19	1.09	1.10	1.08	1.06
850	6.05	5.81	5.62	0.43	3.53	30.78	37.74	22.16	1.14	1.12	1.10	1.07
875	6.20	5.94	5.72	0.49	4.11	27.16	34.84	21.82	1.22	1.15	1.12	1.08
900	6.39	6.10	5.84	0.55	4.72	24.37	30.86	21.13	1.32	1.18	1.15	1.09
925	6.64	6.33	6.02	0.62	5.49	22.08	27.61	20.13	1.44	1.22	1.18	1.10
950	6.94	6.60	6.24	0.70	6.35	20.13	24.96	18.94	1.59	1.26	1.22	1.11
975	7.33	6.97	6.54	0.79	7.63	18.44	22.76	17.66	1.77	1.31	1.25	1.12
1000	7.82	7.44	6.91	0.91	9.14	16.96	20.92	16.38	2.00	1.36	1.29	1.13
1025	8.43	8.03	7.38	1.05	10.94	15.68	19.36	15.15	2.26	1.42	1.33	1.14
1050	9.19	8.76	7.96	1.23	13.09	14.58	18.03	14.04	2.58	1.48	1.37	1.15
1075	10.12	9.67	8.66	1.46	15.64	13.63	16.91	13.04	2.95	1.53	1.41	1.16
1100	11.24	10.76	9.47	1.77	18.66	12.84	15.98	12.17	3.36	1.59	1.45	1.16

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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3 Way-0° Power Splitter/Combiner

JPS-3-1W+

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)			VSWR (:1)			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
10	5.79	5.82	5.84	0.05	0.24	23.67	24.47	23.05	2.42	1.87	1.81	1.86
20	5.19	5.21	5.23	0.04	0.40	23.90	23.75	23.43	1.64	1.41	1.38	1.40
30	5.06	5.08	5.10	0.04	0.49	24.15	23.79	23.69	1.45	1.28	1.27	1.28
40	5.02	5.04	5.06	0.04	0.63	24.34	23.93	23.86	1.37	1.23	1.22	1.23
50	5.01	5.03	5.05	0.04	0.71	24.49	24.07	23.97	1.34	1.19	1.19	1.20
60	5.00	5.03	5.05	0.05	0.78	24.62	24.20	24.03	1.31	1.17	1.18	1.19
70	5.00	5.04	5.05	0.05	0.89	24.73	24.31	24.06	1.30	1.16	1.17	1.18
80	5.00	5.04	5.06	0.05	0.95	24.81	24.41	24.07	1.29	1.14	1.16	1.17
90	5.01	5.04	5.06	0.05	1.03	24.86	24.48	24.03	1.28	1.14	1.15	1.16
100	5.01	5.05	5.06	0.05	1.09	24.86	24.50	23.93	1.27	1.13	1.14	1.15
125	5.03	5.06	5.08	0.05	1.31	24.75	24.44	23.57	1.27	1.12	1.12	1.13
150	5.05	5.08	5.10	0.04	1.54	24.59	24.33	23.18	1.28	1.12	1.11	1.12
175	5.08	5.11	5.12	0.04	1.77	24.34	24.13	22.73	1.30	1.13	1.12	1.12
200	5.09	5.13	5.14	0.04	1.96	24.08	23.90	22.27	1.31	1.13	1.12	1.12
225	5.12	5.14	5.16	0.04	2.08	23.87	23.69	21.88	1.32	1.13	1.10	1.11
250	5.14	5.15	5.17	0.03	2.29	23.73	23.56	21.56	1.33	1.13	1.10	1.10
275	5.16	5.17	5.19	0.02	2.52	23.62	23.45	21.28	1.34	1.13	1.10	1.10
300	5.18	5.18	5.19	0.02	2.69	23.53	23.35	21.03	1.34	1.12	1.10	1.10
325	5.20	5.19	5.21	0.02	2.85	23.53	23.32	20.82	1.34	1.12	1.09	1.09
350	5.21	5.20	5.21	0.02	3.02	23.54	23.31	20.63	1.35	1.12	1.09	1.09
375	5.23	5.21	5.23	0.02	3.21	23.60	23.32	20.47	1.35	1.11	1.09	1.09
400	5.25	5.22	5.23	0.03	3.37	23.66	23.35	20.32	1.35	1.11	1.09	1.09
425	5.27	5.23	5.24	0.04	3.49	23.75	23.39	20.17	1.35	1.11	1.08	1.08
450	5.29	5.24	5.25	0.05	3.66	23.86	23.43	20.04	1.34	1.11	1.08	1.07
475	5.31	5.25	5.26	0.06	3.78	24.02	23.51	19.95	1.34	1.11	1.07	1.07
500	5.33	5.26	5.26	0.07	3.91	24.25	23.65	19.91	1.33	1.11	1.06	1.07
525	5.35	5.26	5.26	0.09	4.05	24.56	23.83	19.90	1.32	1.10	1.06	1.06
550	5.37	5.27	5.27	0.10	4.15	24.97	24.10	19.94	1.31	1.10	1.05	1.06
575	5.39	5.28	5.27	0.12	4.27	25.49	24.42	20.00	1.30	1.09	1.05	1.06
600	5.41	5.29	5.27	0.14	4.35	26.13	24.81	20.09	1.27	1.09	1.04	1.05
625	5.44	5.30	5.28	0.17	4.44	26.94	25.30	20.21	1.25	1.08	1.02	1.05
650	5.47	5.31	5.28	0.19	4.53	27.94	25.89	20.36	1.23	1.07	1.02	1.05
675	5.50	5.32	5.29	0.21	4.58	29.21	26.61	20.54	1.21	1.07	1.01	1.05
700	5.53	5.34	5.29	0.25	4.62	30.94	27.48	20.76	1.18	1.07	1.01	1.04
725	5.57	5.36	5.30	0.27	4.63	33.44	28.55	21.01	1.15	1.06	1.02	1.05
750	5.62	5.39	5.32	0.31	4.69	37.66	29.96	21.29	1.12	1.06	1.03	1.05
775	5.68	5.43	5.33	0.35	4.68	47.98	31.87	21.59	1.09	1.07	1.04	1.06
800	5.75	5.47	5.37	0.38	4.67	42.21	34.40	21.85	1.07	1.08	1.06	1.06
825	5.84	5.54	5.41	0.43	4.69	34.07	36.95	21.96	1.09	1.10	1.08	1.06
850	5.95	5.63	5.47	0.47	4.63	29.45	36.29	21.85	1.15	1.12	1.10	1.07
875	6.09	5.75	5.57	0.52	4.58	26.16	32.67	21.42	1.23	1.15	1.13	1.07
900	6.27	5.92	5.69	0.58	4.49	23.56	29.12	20.64	1.33	1.18	1.16	1.08
925	6.51	6.13	5.86	0.65	5.24	21.41	26.28	19.59	1.46	1.22	1.20	1.09
950	6.81	6.39	6.09	0.72	6.09	19.55	23.89	18.38	1.61	1.26	1.23	1.11
975	7.19	6.76	6.38	0.81	7.12	17.92	21.86	17.10	1.80	1.31	1.27	1.12
1000	7.68	7.22	6.76	0.91	8.40	16.49	20.16	15.84	2.04	1.36	1.31	1.13
1025	8.29	7.80	7.25	1.05	9.90	15.24	18.68	14.63	2.33	1.43	1.35	1.15
1050	9.06	8.53	7.85	1.21	11.76	14.16	17.41	13.52	2.68	1.49	1.40	1.16
1075	9.99	9.44	8.57	1.42	14.00	13.23	16.35	12.54	3.09	1.55	1.44	1.17
1100	11.13	10.54	9.42	1.70	16.78	12.46	15.46	11.69	3.56	1.62	1.48	1.17

¹Total Loss = Insertion Loss + 4.8dB Splitter Loss

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Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION			VSWR			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
10	5.73	5.78	5.80	0.07	0.24	20.80	20.84	20.51	2.39	1.80	1.77	1.81
20	5.16	5.21	5.23	0.07	0.26	21.85	21.53	21.62	1.64	1.43	1.43	1.46
30	5.04	5.09	5.11	0.08	0.24	22.24	21.85	21.99	1.45	1.32	1.33	1.35
40	5.00	5.06	5.08	0.08	0.27	22.43	22.03	22.15	1.37	1.27	1.28	1.30
50	4.99	5.05	5.07	0.08	0.24	22.52	22.14	22.20	1.32	1.24	1.25	1.27
60	5.00	5.05	5.07	0.07	0.21	22.57	22.20	22.19	1.30	1.22	1.22	1.24
70	5.00	5.05	5.08	0.07	0.22	22.58	22.23	22.15	1.28	1.21	1.20	1.22
80	5.01	5.06	5.08	0.07	0.23	22.58	22.26	22.10	1.27	1.20	1.18	1.20
90	5.02	5.06	5.09	0.07	0.27	22.57	22.27	22.03	1.27	1.19	1.17	1.18
100	5.04	5.08	5.10	0.07	0.32	22.54	22.26	21.94	1.27	1.19	1.16	1.17
125	5.05	5.10	5.13	0.08	0.39	22.44	22.22	21.72	1.28	1.17	1.16	1.16
150	5.07	5.13	5.15	0.09	0.38	22.41	22.23	21.56	1.27	1.16	1.16	1.16
175	5.08	5.14	5.18	0.10	0.33	22.38	22.25	21.41	1.26	1.15	1.14	1.15
200	5.10	5.16	5.20	0.10	0.31	22.39	22.30	21.26	1.26	1.14	1.12	1.12
225	5.13	5.19	5.23	0.10	0.25	22.45	22.39	21.16	1.27	1.14	1.12	1.11
250	5.14	5.20	5.25	0.11	0.21	22.55	22.50	21.07	1.27	1.13	1.12	1.11
275	5.15	5.23	5.27	0.12	0.11	22.61	22.57	20.95	1.27	1.12	1.12	1.11
300	5.18	5.24	5.28	0.11	0.02	22.63	22.60	20.79	1.27	1.12	1.11	1.10
325	5.21	5.27	5.31	0.10	0.10	22.70	22.65	20.65	1.28	1.12	1.10	1.09
350	5.23	5.29	5.33	0.10	0.21	22.75	22.67	20.49	1.29	1.12	1.10	1.08
375	5.25	5.31	5.35	0.10	0.37	22.81	22.69	20.36	1.30	1.12	1.10	1.08
400	5.28	5.33	5.37	0.09	0.51	22.88	22.72	20.24	1.31	1.11	1.09	1.08
425	5.31	5.35	5.38	0.08	0.70	22.98	22.74	20.12	1.31	1.11	1.08	1.07
450	5.34	5.37	5.40	0.06	0.86	23.09	22.78	20.02	1.31	1.11	1.08	1.06
475	5.37	5.40	5.42	0.05	1.06	23.26	22.85	19.96	1.31	1.11	1.08	1.06
500	5.40	5.41	5.43	0.03	1.29	23.46	22.93	19.93	1.31	1.11	1.07	1.06
525	5.42	5.43	5.44	0.02	1.49	23.73	23.07	19.92	1.30	1.10	1.07	1.05
550	5.45	5.45	5.45	0.01	1.76	24.05	23.25	19.95	1.30	1.10	1.06	1.05
575	5.49	5.47	5.47	0.02	2.02	24.45	23.46	20.00	1.29	1.09	1.05	1.05
600	5.52	5.49	5.48	0.05	2.31	24.96	23.72	20.09	1.27	1.09	1.05	1.05
625	5.56	5.52	5.49	0.07	2.64	25.59	24.07	20.22	1.26	1.09	1.04	1.05
650	5.59	5.53	5.49	0.10	2.96	26.37	24.49	20.39	1.24	1.08	1.03	1.05
675	5.64	5.56	5.51	0.13	3.34	27.34	25.00	20.61	1.21	1.08	1.03	1.05
700	5.68	5.59	5.52	0.17	3.77	28.62	25.63	20.88	1.19	1.07	1.02	1.05
725	5.73	5.62	5.53	0.20	4.20	30.37	26.41	21.18	1.16	1.07	1.01	1.05
750	5.79	5.66	5.55	0.24	4.73	32.90	27.42	21.55	1.12	1.07	1.02	1.06
775	5.86	5.71	5.58	0.28	5.29	37.03	28.75	21.94	1.09	1.08	1.03	1.06
800	5.94	5.77	5.61	0.33	5.89	44.48	30.53	22.35	1.06	1.09	1.04	1.06
825	6.04	5.85	5.66	0.37	6.52	39.94	32.90	22.67	1.07	1.10	1.06	1.07
850	6.16	5.96	5.73	0.44	7.30	33.06	35.74	22.82	1.12	1.12	1.08	1.07
875	6.32	6.10	5.82	0.50	8.11	28.75	36.71	22.67	1.20	1.15	1.10	1.08
900	6.51	6.27	5.95	0.57	9.09	25.57	33.60	22.12	1.29	1.18	1.13	1.08
925	6.77	6.50	6.12	0.65	10.16	23.05	29.87	21.17	1.41	1.22	1.16	1.09
950	7.08	6.79	6.34	0.74	11.31	20.95	26.75	19.95	1.56	1.26	1.20	1.10
975	7.47	7.17	6.63	0.84	12.68	19.15	24.22	18.59	1.74	1.30	1.23	1.11
1000	7.96	7.64	7.00	0.97	14.26	17.60	22.15	17.24	1.96	1.36	1.27	1.12
1025	8.58	8.24	7.46	1.12	16.08	16.26	20.41	15.94	2.22	1.41	1.31	1.14
1050	9.34	8.97	8.03	1.31	18.21	15.11	18.95	14.76	2.53	1.47	1.35	1.15
1075	10.25	9.86	8.71	1.54	20.76	14.12	17.73	13.71	2.88	1.53	1.39	1.16
1100	11.35	10.94	9.50	1.85	23.68	13.31	16.72	12.80	3.27	1.58	1.43	1.17

¹Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
JPS-3-1W+
100622
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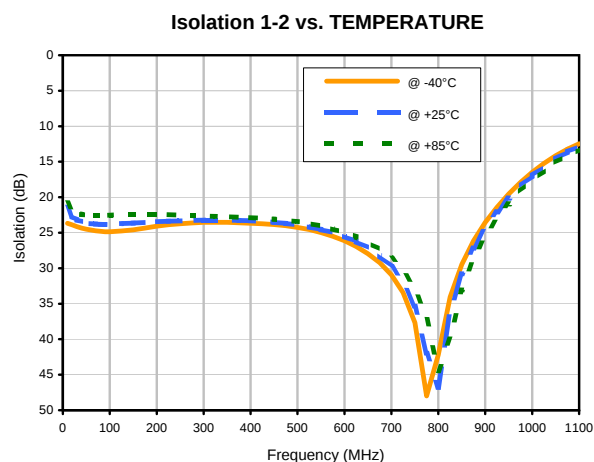
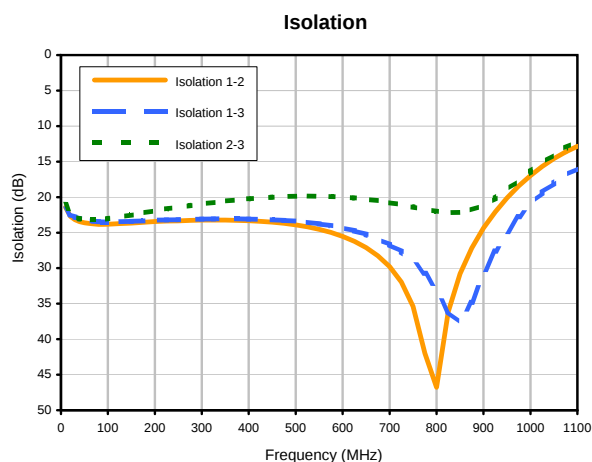
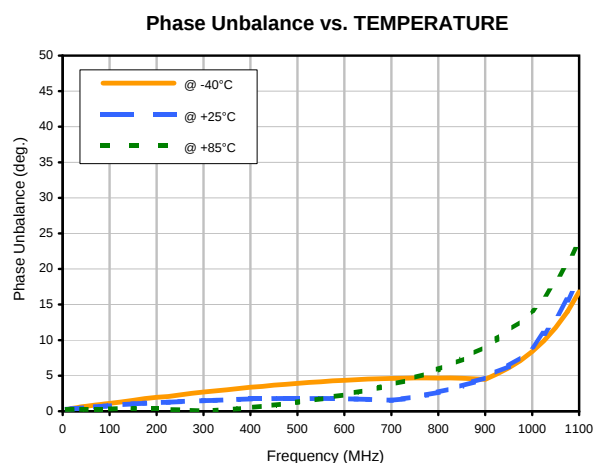
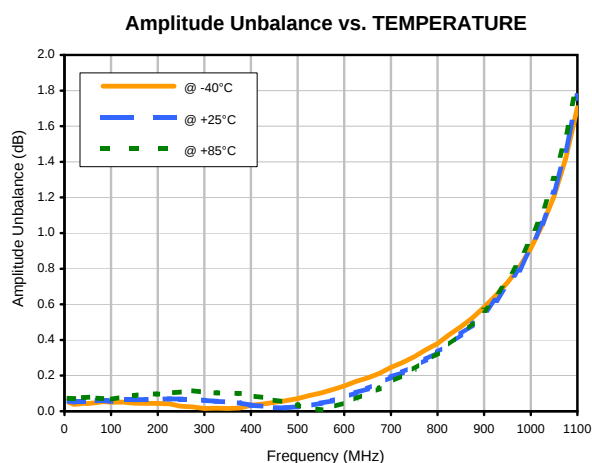
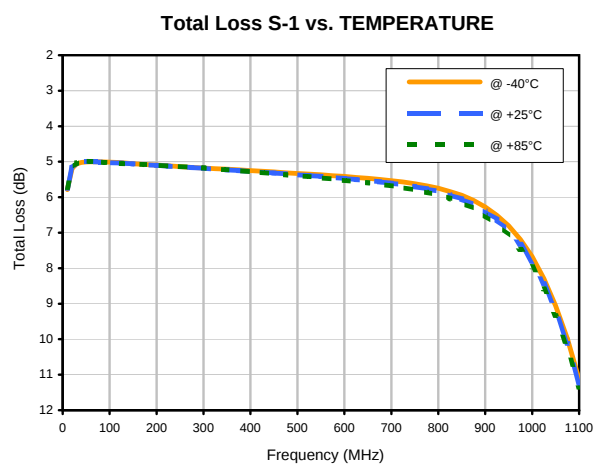
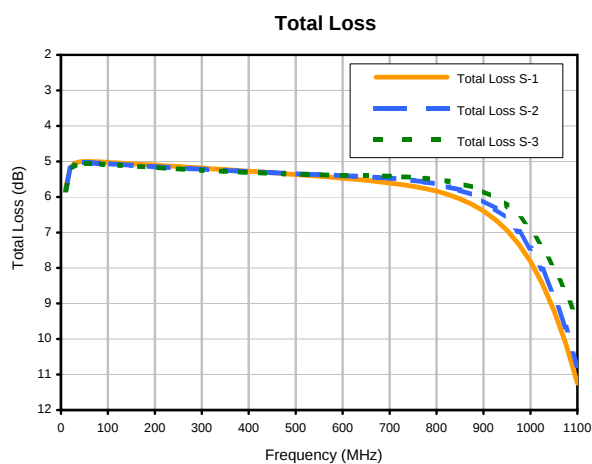
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3 Way-0° Power Splitter/Combiner

JPS-3-1W+

Typical Performance Curves

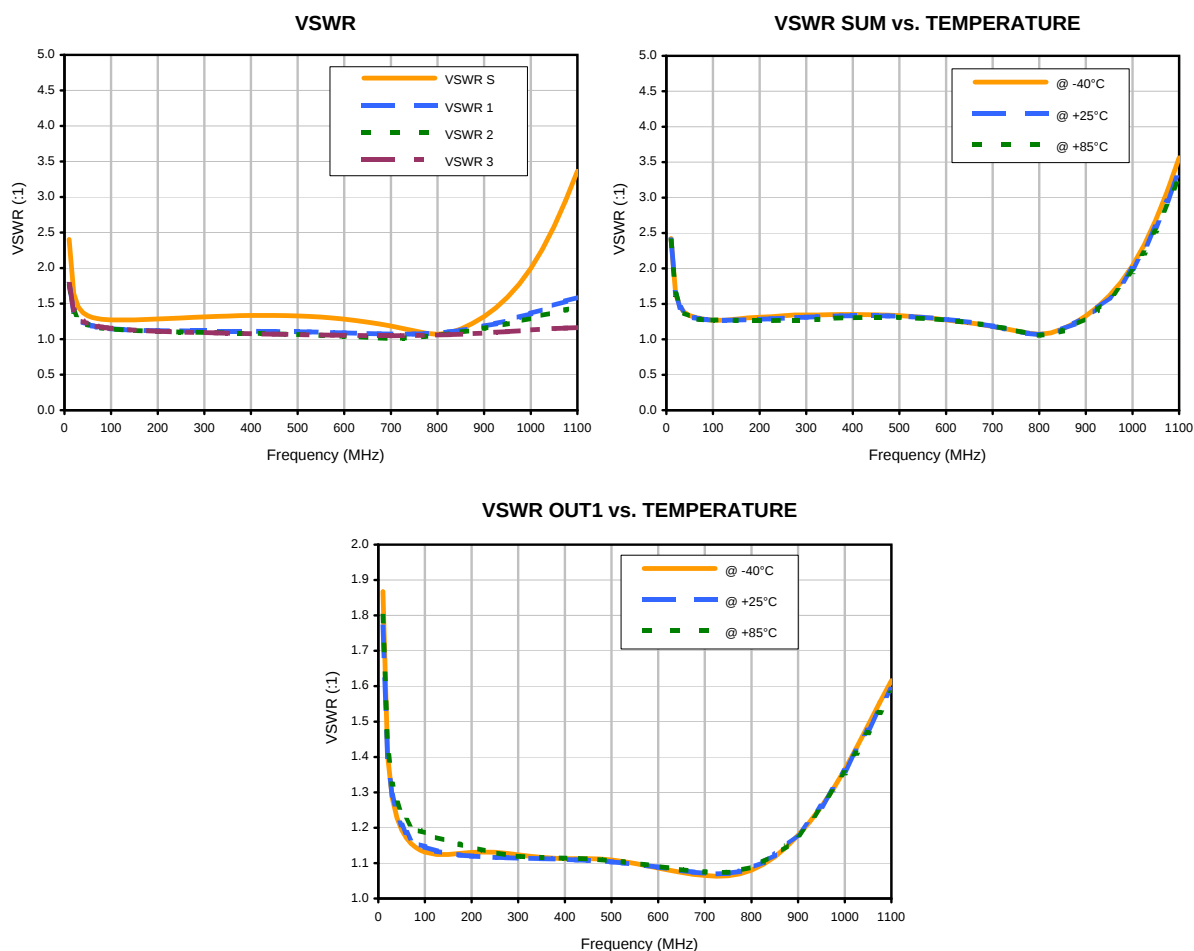


REV. X2
JPS-3-1W+
100622
Page 1 of 2

3 Way-0° Power Splitter/Combiner

JPS-3-1W+

Typical Performance Curves



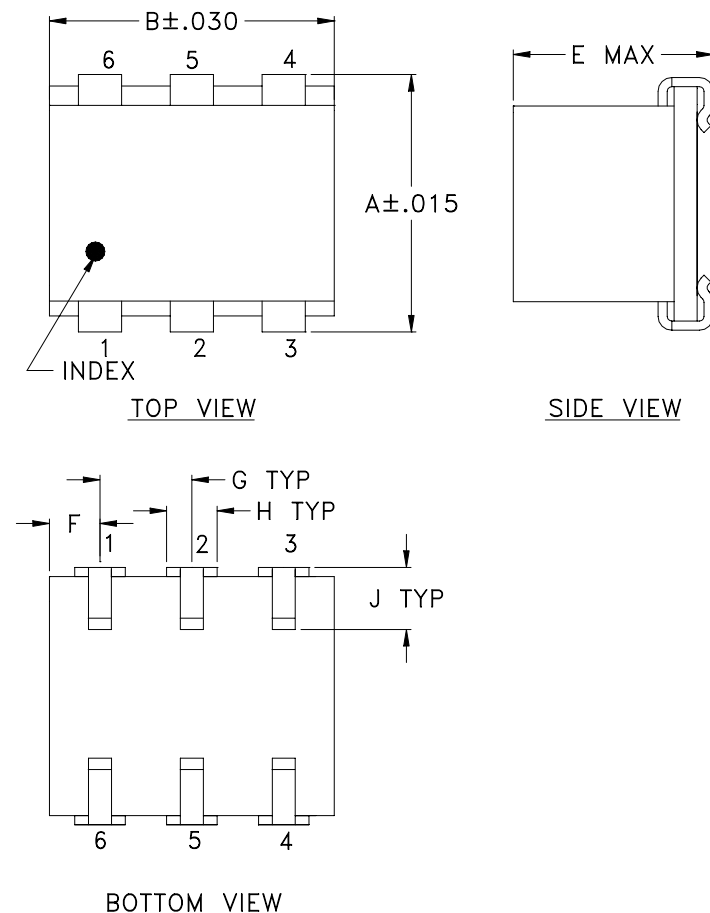
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JPS-3-1W+
100622
Page 2 of 2



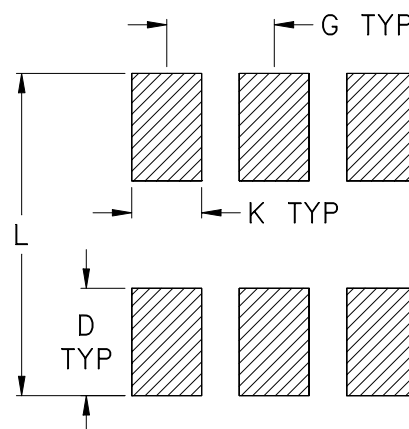
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Outline Dimensions



PCB Land Pattern



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

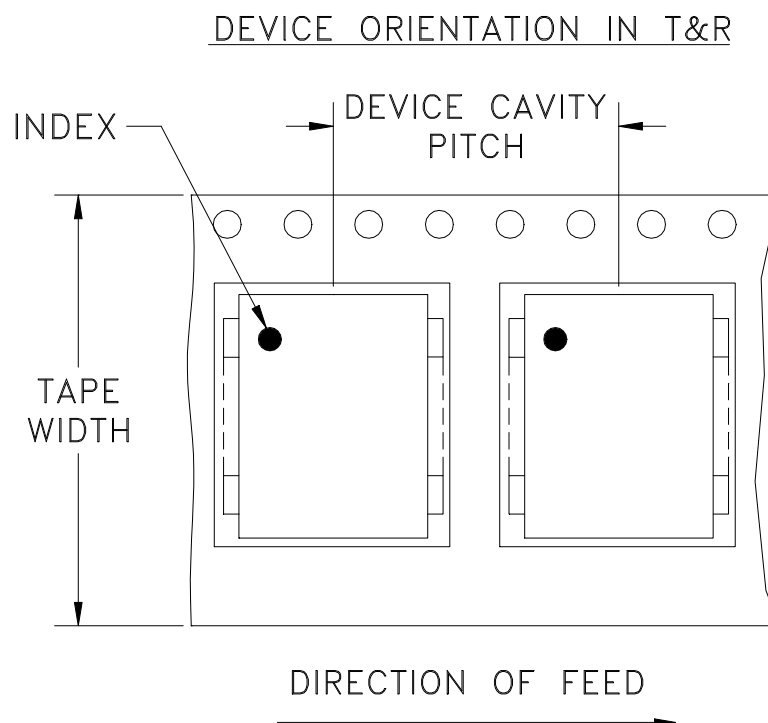
CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAM
BH292	.280 (7.11)	.310 (7.87)	- -	.100 (2.54)	.225 (5.72)	.055 (1.40)	.100 (2.54)	.047 (1.19)	.065 (1.65)	.065 (1.65)	.300 (7.62)	.45

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



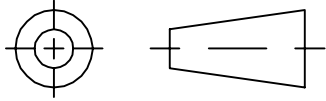
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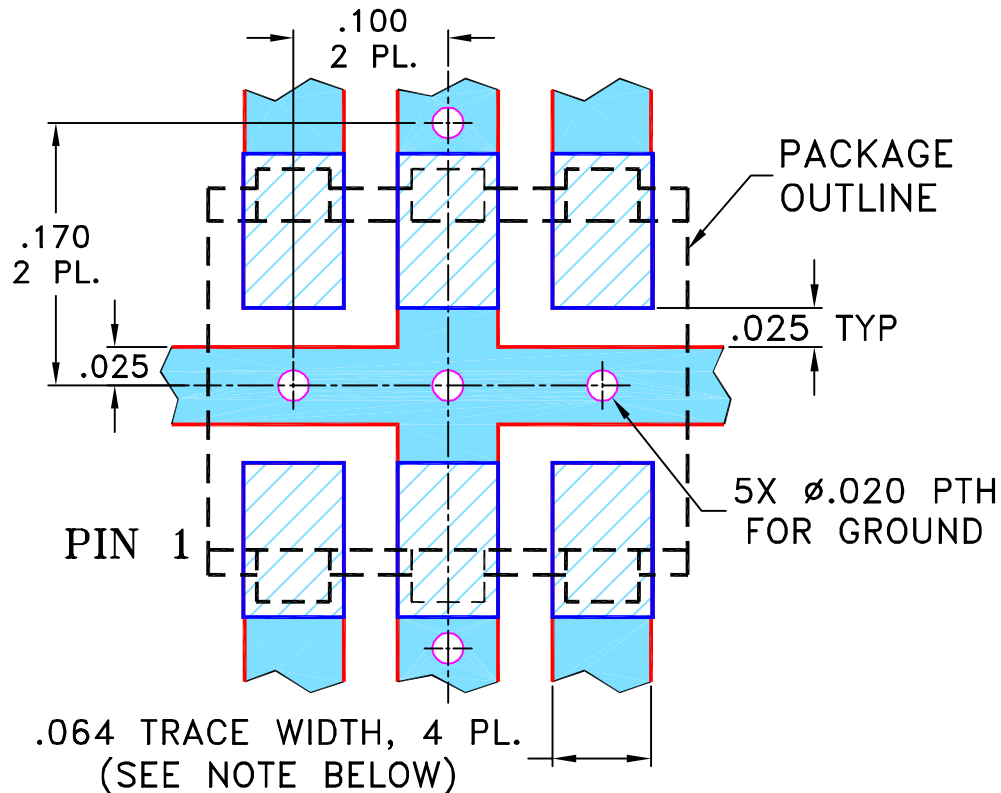
THIRD ANGLE PROJECTION



REVISIONS

REV	ECN No.	DESCRIPTION	DATE	DR	AUTH
OR	M82476	NEW RELEASE	11/26/02	MMG	HY
A	M102713	ADDED "ay", "lg", "ls" PIN CONNECTIONS, CD636/637 CASE STYLES & "...WITH SMOBC"	01/17/06	MMG	IL

**SUGGESTED MOUNTING CONFIGURATION
FOR BH292, CD636/CD637 CASE STYLES,
"ay", "lg", "ls" 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

10/30/02

CHECKED

AV

11/26/02

APPROVED

HY

11/26/02



Mini-Circuits®

13 Neptune Avenue
Brooklyn NY 11235

PL, ay/jg/lb, BH292, CD636/637,
ADPQ/AMT/JPS, TB-211

SIZE
A

CODE IDENT
15542

DRAWING NO:
98-PL-097

REV:
A

FILE: 98PL097

SCALE: 8:1

SHEET: 1 OF 1

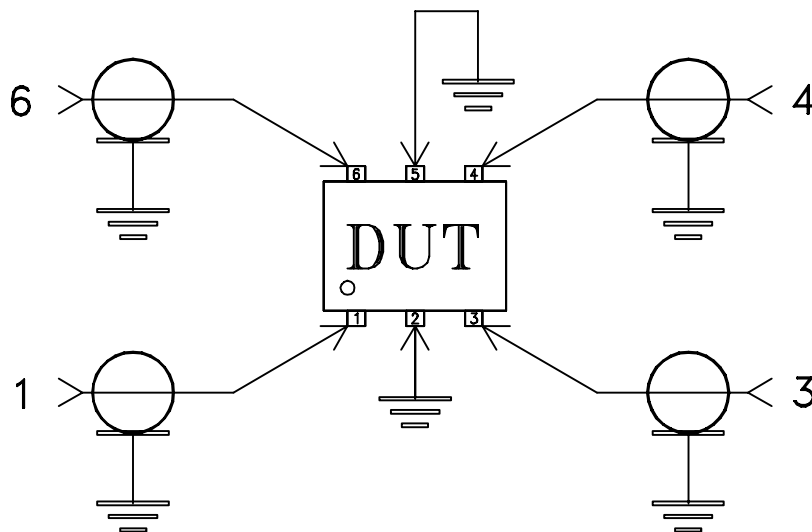
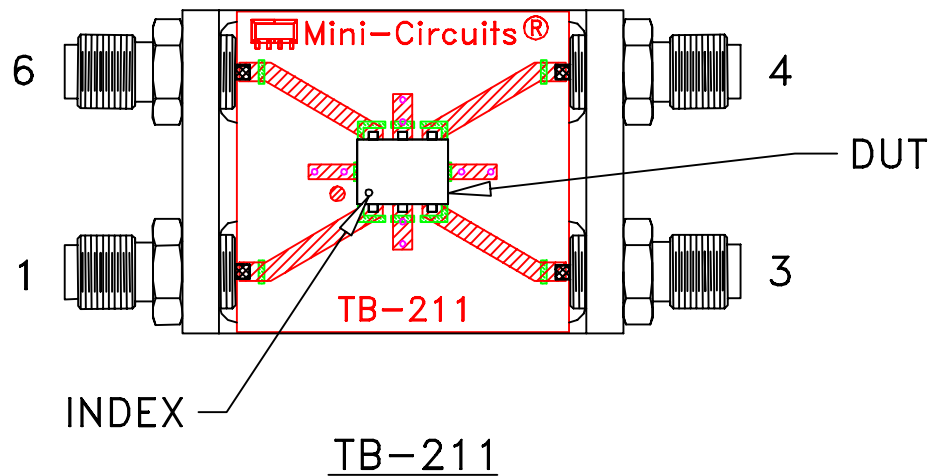
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ASHEETA1.DWG REV:A DATE:01/12/95

Evaluation Board and Circuit

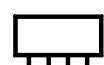
For Pin Connections refer to Data Sheet of the DUT



Schematic Diagram

Notes:

1. SMA Female connectors.
2. PCB Material: Rogers R04350 or equivalent,
Dielectric Constant=3.5, Thickness=.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