

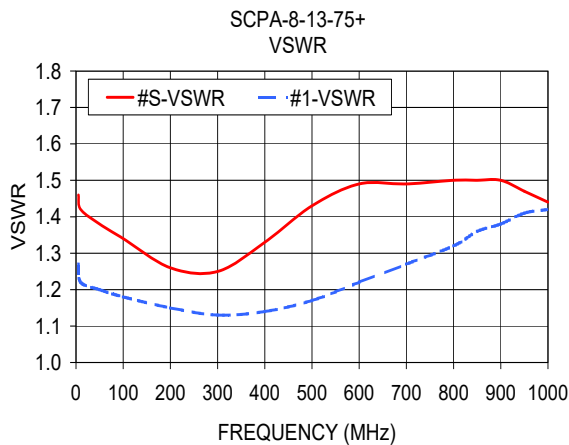
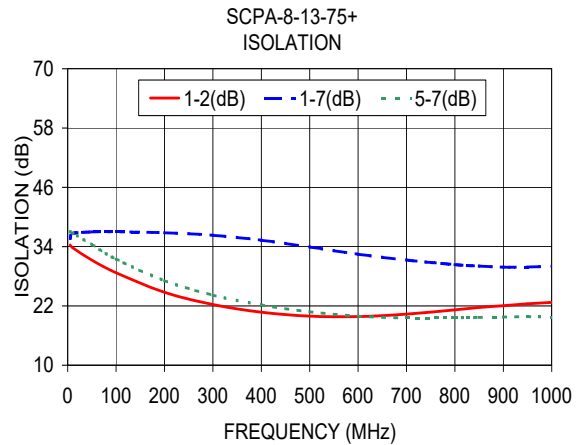
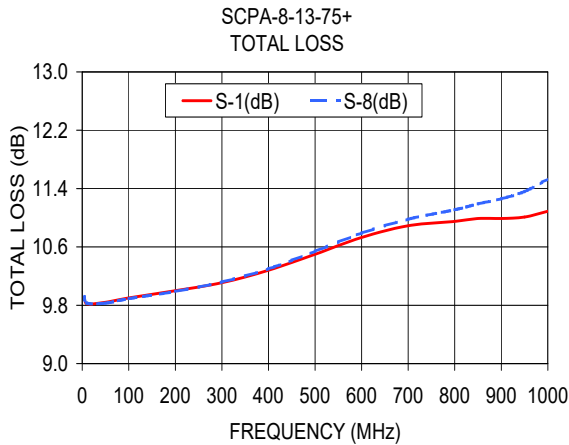
A diagram showing a central rectangular block representing a system. On the left side, there is a single input line labeled "PORT S" with a small circle at its connection point. On the right side, there are multiple output lines labeled "PORT 1", "PORT 2", a vertical ellipsis ":", and "PORT N", each with a small circle at its connection point.

REV. B
ECO-001560
ED-13425/1
SCPA-8-13-75+
WZ/CP/AM
200127

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)						Ampl. Unbl. (dB)	Isolation (dB)				Phase Unbl. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-7	3-4	5-7				
5.00	9.90	9.90	9.90	9.91	9.92	9.92	0.02	34.37	35.64	34.45	37.06	0.14	1.46	1.27	1.27
10.00	9.82	9.81	9.82	9.82	9.83	9.83	0.02	33.79	36.66	33.56	36.77	0.12	1.42	1.22	1.22
50.00	9.84	9.84	9.84	9.84	9.84	9.83	0.01	31.27	36.97	31.29	34.40	0.35	1.38	1.20	1.20
100.00	9.90	9.89	9.90	9.89	9.89	9.89	0.01	28.71	37.01	28.71	31.47	0.79	1.34	1.18	1.18
200.00	10.00	9.98	9.98	9.95	9.99	9.99	0.04	24.77	36.81	24.71	27.11	1.62	1.26	1.15	1.14
300.00	10.11	10.08	10.08	10.03	10.11	10.12	0.09	22.28	36.30	22.15	24.19	2.32	1.25	1.13	1.11
400.00	10.28	10.24	10.23	10.14	10.28	10.30	0.17	20.74	35.30	20.52	22.21	2.94	1.33	1.14	1.11
500.00	10.50	10.44	10.42	10.31	10.48	10.54	0.23	19.94	33.93	19.72	20.82	3.45	1.43	1.17	1.15
600.00	10.73	10.64	10.58	10.49	10.68	10.79	0.30	19.83	32.47	19.67	19.94	3.92	1.49	1.22	1.21
700.00	10.89	10.77	10.72	10.65	10.88	10.98	0.32	20.34	31.29	20.52	19.57	4.40	1.49	1.27	1.28
800.00	10.95	10.83	10.77	10.77	11.04	11.11	0.34	21.22	30.36	22.23	19.60	4.86	1.50	1.32	1.35
850.00	10.99	10.87	10.76	10.83	11.08	11.19	0.43	21.69	30.07	23.37	19.68	5.23	1.50	1.36	1.38
900.00	10.99	10.89	10.77	10.87	11.15	11.26	0.50	22.06	29.84	24.47	19.75	5.61	1.50	1.38	1.41
950.00	11.01	10.92	10.79	10.92	11.25	11.36	0.56	22.44	29.87	25.39	19.85	6.16	1.47	1.41	1.44
1000.00	11.09	11.01	10.81	11.01	11.36	11.53	0.72	22.72	30.03	26.02	19.73	6.85	1.44	1.42	1.47

1. Total Loss = Insertion Loss + 9dB splitter theoretical loss.



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.
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8 Way-0° Power Splitter/Combiner

SCPA-8-13-75+

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ⁽¹⁾ (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-7	3-4	5-7			S	1	8
1.00	10.53	10.53	10.53	10.52	10.56	10.55	0.04	35.07	30.37	38.43	36.86	0.06	1.00	1.78	1.68	1.70
2.00	10.17	10.17	10.18	10.18	10.20	10.18	0.03	34.93	32.80	36.33	37.81	0.16	2.00	1.59	1.44	1.45
3.00	10.02	10.04	10.03	10.03	10.05	10.05	0.03	35.04	34.08	35.47	37.54	0.09	3.00	1.52	1.34	1.35
4.00	9.95	9.95	9.95	9.95	9.97	9.97	0.03	34.76	35.02	34.84	37.33	0.07	4.00	1.48	1.30	1.30
5.00	9.90	9.90	9.90	9.91	9.92	9.92	0.02	34.37	35.64	34.45	37.06	0.14	5.00	1.46	1.27	1.27
6.00	9.88	9.88	9.87	9.87	9.89	9.89	0.02	34.26	36.00	34.22	36.93	0.13	6.00	1.44	1.25	1.25
7.00	9.86	9.86	9.86	9.86	9.87	9.87	0.02	34.13	36.16	34.01	36.89	0.15	7.00	1.43	1.24	1.24
8.00	9.84	9.84	9.84	9.84	9.86	9.86	0.02	33.98	36.33	33.84	36.79	0.10	8.00	1.43	1.23	1.24
9.00	9.83	9.83	9.83	9.83	9.85	9.84	0.02	33.82	36.51	33.72	36.76	0.14	9.00	1.42	1.23	1.23
10.00	9.82	9.81	9.82	9.82	9.83	9.83	0.02	33.79	36.66	33.56	36.77	0.12	10.00	1.42	1.22	1.22
20.00	9.81	9.81	9.81	9.81	9.81	9.81	0.01	32.89	36.81	32.83	36.04	0.14	20.00	1.40	1.21	1.21
30.00	9.81	9.81	9.82	9.82	9.82	9.82	0.01	32.37	36.83	32.37	35.58	0.23	30.00	1.39	1.21	1.21
40.00	9.83	9.82	9.83	9.83	9.83	9.83	0.01	31.84	36.80	31.85	34.98	0.33	40.00	1.38	1.21	1.21
50.00	9.84	9.84	9.84	9.84	9.84	9.83	0.01	31.27	36.97	31.29	34.40	0.35	50.00	1.38	1.20	1.20
60.00	9.85	9.84	9.85	9.85	9.85	9.84	0.01	30.72	37.03	30.78	33.78	0.46	60.00	1.37	1.20	1.20
70.00	9.86	9.86	9.87	9.86	9.86	9.86	0.02	30.21	36.98	30.23	33.24	0.57	70.00	1.36	1.20	1.20
80.00	9.87	9.87	9.88	9.87	9.87	9.86	0.02	29.68	36.98	29.73	32.66	0.63	80.00	1.36	1.19	1.19
90.00	9.88	9.88	9.89	9.88	9.88	9.88	0.01	29.18	37.01	29.18	32.02	0.73	90.00	1.35	1.19	1.19
100.00	9.90	9.89	9.90	9.89	9.89	9.89	0.01	28.71	37.01	28.71	31.47	0.79	100.00	1.34	1.18	1.18
150.00	9.94	9.92	9.94	9.92	9.94	9.93	0.02	26.50	36.99	26.47	29.04	1.22	150.00	1.30	1.17	1.17
200.00	10.00	9.98	9.98	9.95	9.99	9.99	0.04	24.77	36.81	24.71	27.11	1.62	200.00	1.26	1.15	1.14
250.00	10.05	10.03	10.03	9.99	10.05	10.05	0.06	23.41	36.66	23.31	25.53	2.01	250.00	1.25	1.14	1.12
300.00	10.11	10.08	10.08	10.03	10.11	10.12	0.09	22.28	36.30	22.15	24.19	2.32	300.00	1.25	1.13	1.11
350.00	10.21	10.17	10.15	10.09	10.18	10.22	0.13	21.42	35.89	21.25	23.13	2.59	350.00	1.29	1.13	1.10
400.00	10.28	10.24	10.23	10.14	10.28	10.30	0.17	20.74	35.30	20.52	22.21	2.94	400.00	1.33	1.14	1.11
450.00	10.40	10.34	10.31	10.21	10.36	10.42	0.21	20.25	34.65	20.02	21.41	3.18	450.00	1.39	1.14	1.13
500.00	10.50	10.44	10.42	10.31	10.48	10.54	0.23	19.94	33.93	19.72	20.82	3.45	500.00	1.43	1.17	1.15
550.00	10.61	10.52	10.51	10.38	10.59	10.65	0.27	19.80	33.15	19.57	20.32	3.72	550.00	1.47	1.19	1.18
600.00	10.73	10.64	10.58	10.49	10.68	10.79	0.30	19.83	32.47	19.67	19.94	3.92	600.00	1.49	1.22	1.21
650.00	10.81	10.70	10.67	10.57	10.80	10.88	0.31	20.03	31.79	19.98	19.74	4.17	650.00	1.50	1.24	1.24
700.00	10.89	10.77	10.72	10.65	10.88	10.98	0.32	20.34	31.29	20.52	19.57	4.40	700.00	1.49	1.27	1.28
750.00	10.95	10.82	10.75	10.73	10.95	11.07	0.34	20.76	30.77	21.30	19.55	4.60	750.00	1.50	1.30	1.31
800.00	10.95	10.83	10.77	10.77	11.04	11.11	0.34	21.22	30.36	22.23	19.60	4.86	800.00	1.50	1.32	1.35
850.00	10.99	10.87	10.76	10.83	11.08	11.19	0.43	21.69	30.07	23.37	19.68	5.23	850.00	1.50	1.36	1.38
900.00	10.99	10.89	10.77	10.87	11.15	11.26	0.50	22.06	29.84	24.47	19.75	5.61	900.00	1.50	1.38	1.41
950.00	11.01	10.92	10.79	10.92	11.25	11.36	0.56	22.44	29.87	25.39	19.85	6.16	950.00	1.47	1.41	1.44
1000.00	11.09	11.01	10.81	11.01	11.36	11.53	0.72	22.72	30.03	26.02	19.73	6.85	1000.00	1.44	1.42	1.47
1250.00	12.34	12.33	11.95	12.05	13.21	13.59	1.64	19.02	34.65	17.75	20.03	14.09	1250.00	1.50	1.49	1.52

⁽¹⁾ Total Loss = Insertion Loss + 9dB splitter theoretical loss.

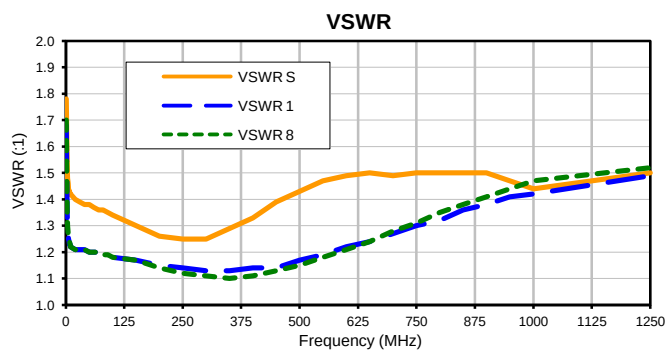
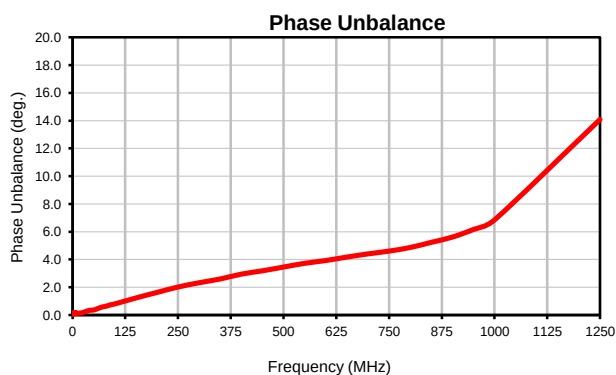
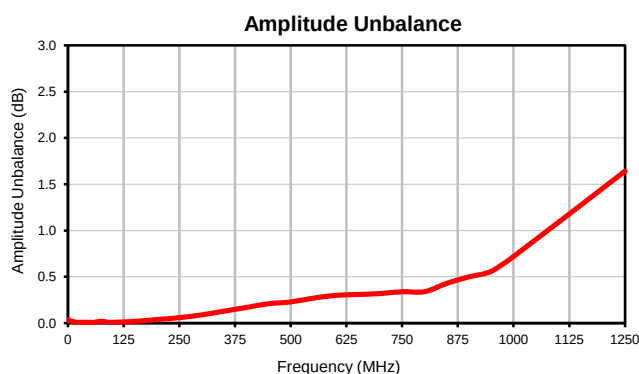
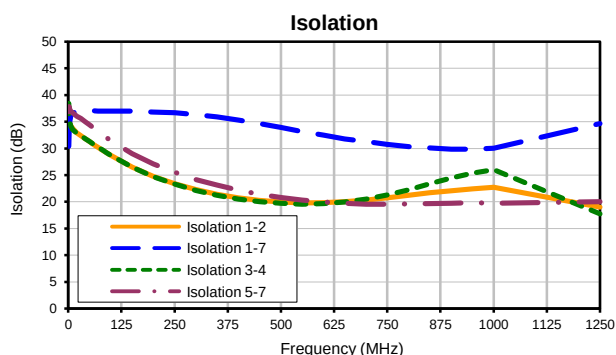
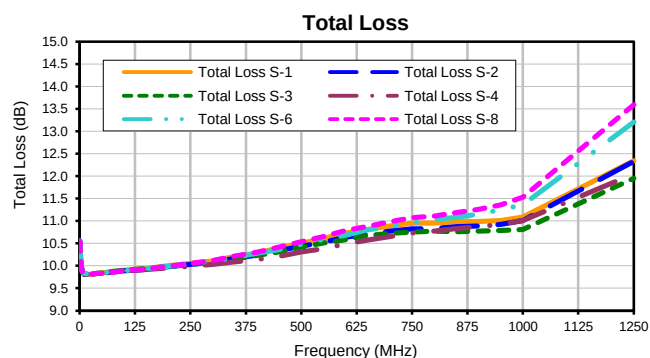


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IF/RF MICROWAVE COMPONENTS

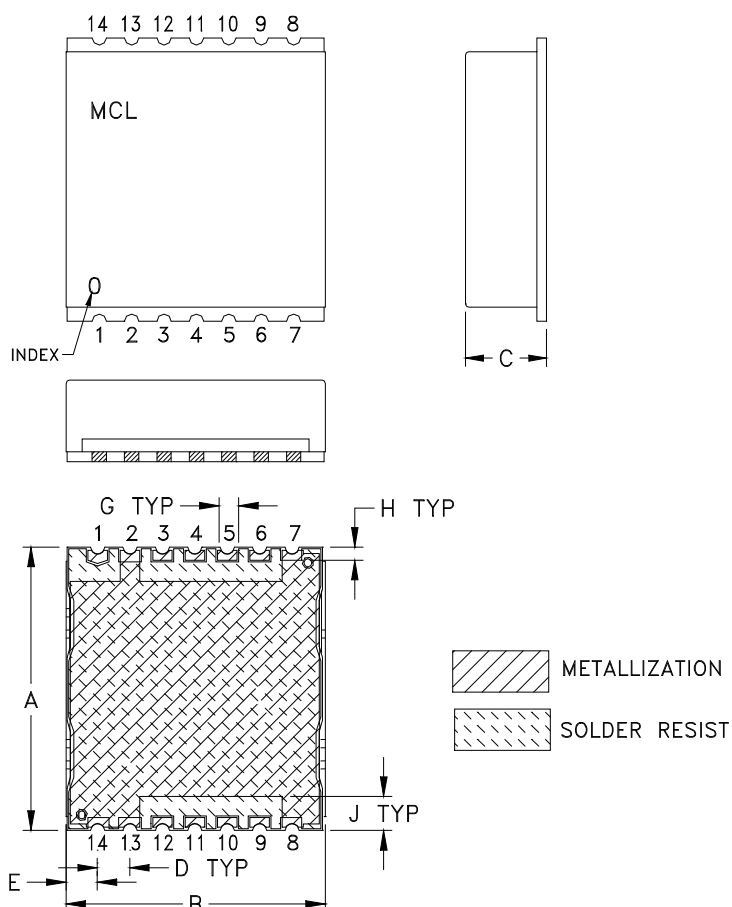
REV. OR
SCPA-8-13-75+
2/2/2015
Page 1 of 1

Typical Performance Curves

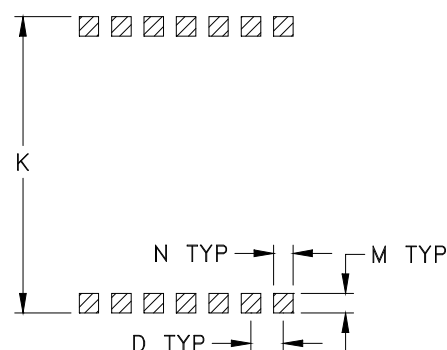


Outline Dimensions

HU1371



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
HU1371	.870 (22.10)	.800 (20.32)	.25 (6.35)	.100 (2.54)	.097 (2.46)	-	.060 (1.52)	.040 (1.02)	.105 (2.67)	.910 (23.11)	-	.060 (1.52)	.060 (1.52)	-	2.85

Dimensions are in inches (mm). Tolerances: 2PL. +/- .03; 3PL. +/- .015

Notes:

1. Case material: Nickel-Silver alloy.
2. Base: Printed wiring laminate.
3. Termination finish:

For RoHS Case Styles: 2-5 μ inch (.05-.13 microns) Gold over .120-.240 μ inch (3.05-6.10 microns) Nickel plate. All models (+) suffix.



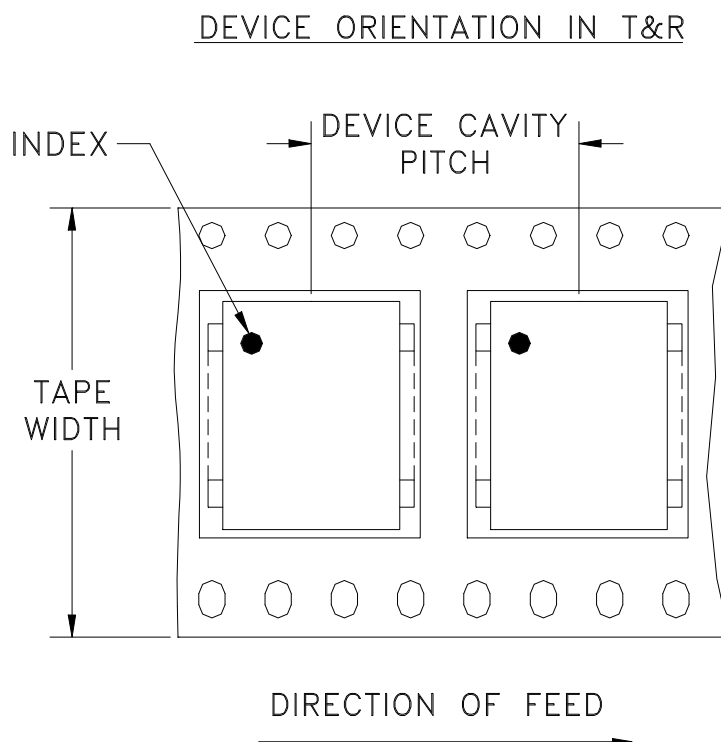
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Tape & Reel Packaging TR-F21



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
32	32	13	200

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OR	M122073	NEW RELEASE	03/26/09	MMG	WP

- NOTE: 1. TRACE WIDTH IS SHOWN FOR OAK-602 WITH DIELECTRIC THICKNESS .022" $\pm$.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 _____

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11


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PL, 14SP02, 75, HU1371, TB-487+

SIZE
A

CODE IDENT
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DRAWING NO:
98-PL-295

REV:	OR
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FILE: 98PL295

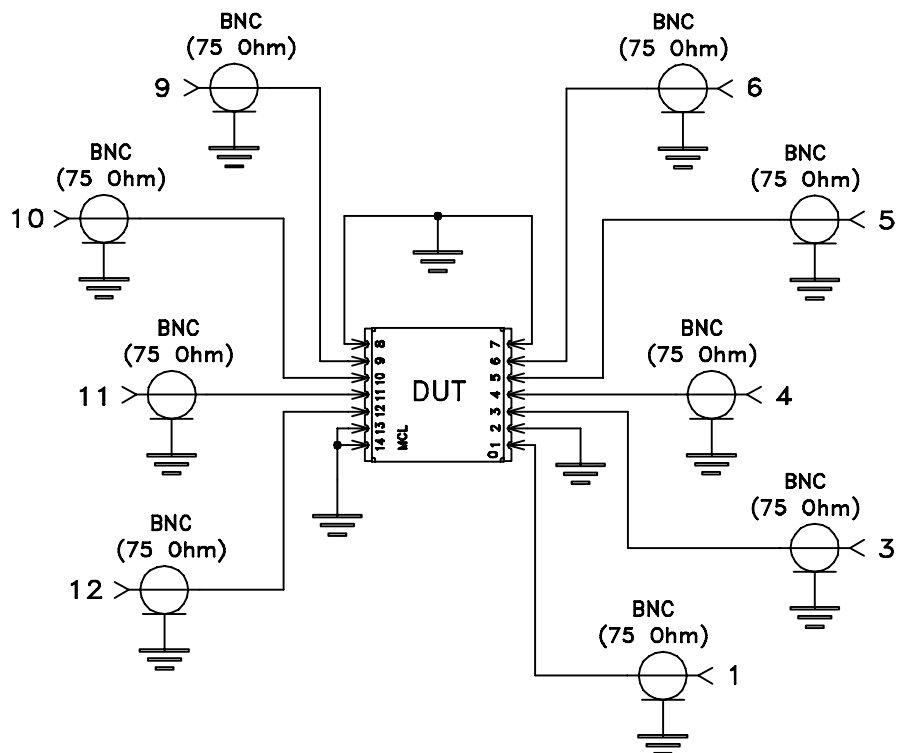
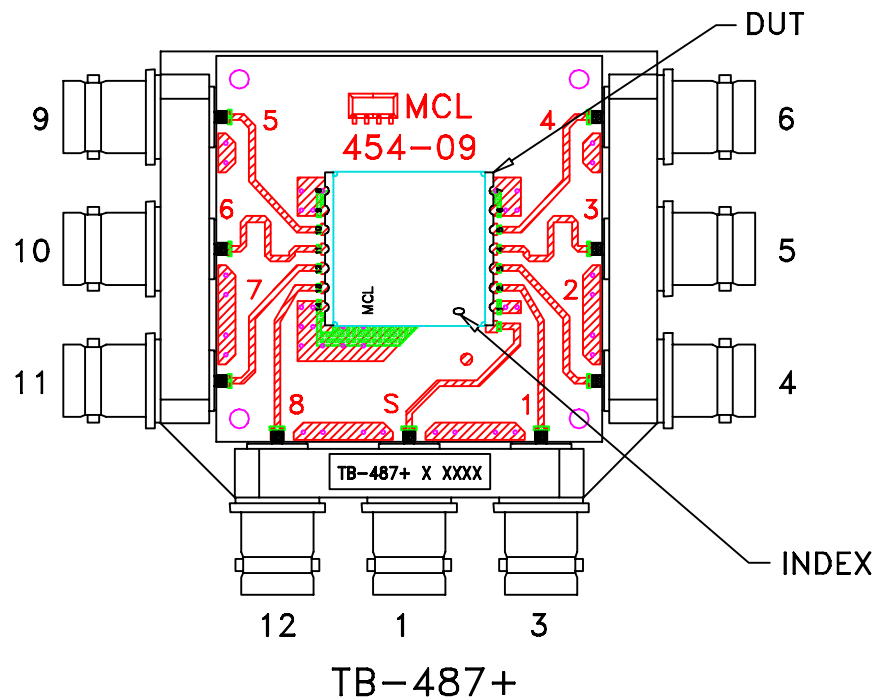
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SHEET:	1 OF 1
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ASHEETA1.DWG REV:A DATE:01/12/95

Evaluation Board and Circuit

For Pin Connections refer to Data Sheet of the DUT



Schematic Diagram

Notes:

1. 75 Ohm BNC Female connectors.
2. PCB Material: OAK or equivalent, Dielectric Constant=2.5, Thickness=.022 inch.

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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