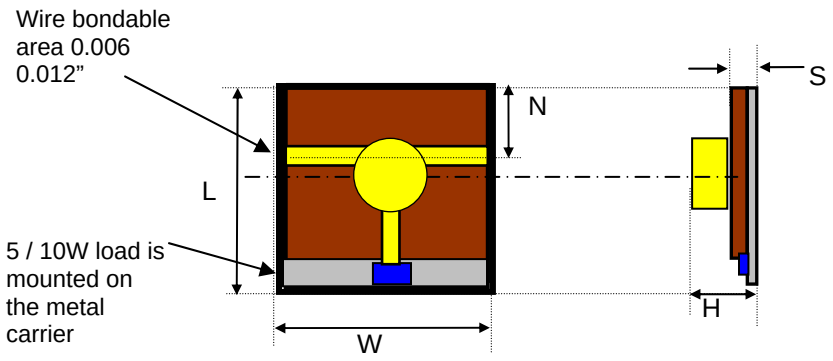
Isolators: Microstrip Metal Backed

RADI/C-FLOW-FHIGH-MSSMH-XW-L/R-e



Tolerance Table Metric (inch)
(unless otherwise stated):
Dimensions (w*l*h) +/- 0.3 mm, (+/- 0.015”)
Dimensions (Microstrip pad, Stripline Tab, +/- 0.1mm, (+/- 0.04”)
Machined surfaces
Flatness 0.025/mm, (0.001/ inch)
Bend radius 0.8mm, (0.031” or 1/32”)

Units: Inch (mm)
Not to scale

Direction of RF:	
R	Default ▶
L	◀

The thin film Microstrip lines are suitable for soldering or thermo-compression gap welding.

Specifications over full operating temperature (-30 to +80 °C)

Storage temperature (-40 to +85°C)

Order Examples: RADI-5.9-7.1-MSSMH-1WR-e
I=ISOLATOR

I	C	Model#	FREQ	Ins loss dB	Isol dB	VSWR	Pwr Fwd W	Pwr Rev W	Oper. Temp	Customer part #
I		M1	5.915-6.425	0.5	20	1.22:1	5	5	-30 to 80 °C	-073
I		M1	6.425-7.125	0.5	20	1.22:1	5	5	-30 to 80 °C	-074
I		M1	7.11-7.90	0.5	20	1.22:1	5	5	-30 to 80 °C	-075
I		M1	7.725-8.5	0.5	20	1.22:1	5	5	-30 to 80 °C	-076
I		M1	10.5-11.7	0.6	20	1.22:1	5	5	-30 to 80 °C	-077
			all units screened			1.19:1 @ RT				
		M2	5.9-7.1	0.6	16	1.40:1	10	1	-10 to 70 °C	
I		M2	5.9-7.1	0.6	16	1.40:1	10	10	-10 to 70 °C	
I		M2	7.9-8.5	0.5	20	1.35:1	3	1	-30 to 75 °C	
I		M2	7.1-8.5	0.6	16	1.40:1	10	2	-10 to 70 °C	
I		M2	7.1-8.5	0.6	16	1.40:1	10	10	-10 to 70 °C	
I		M3	10.5-11.7	0.6	20	1.22:1	5	5	-30 to 80 °C	-077
			all units screened			1.19:1 @ RT				
I		M4	10.6-11.8	0.6	17	1.30:1	10	10	25 to 85 °C	
I		M4	10.0-10.71	0.6	17	1.30:1	10	1	25 to 85 °C	
I		M5	12.75-13.25	0.7	19	1.30:1	2	2	-30 to 80 °C	
I		M5	14.20-14.50	0.7	19	1.30:1	2	2	-30 to 80 °C	
I		M5	14.40-15.35	0.7	19	1.30:1	2	2	-30 to 80 °C	
I		M6	17.70-19.70	0.7	19	1.30:1	2	2	-30 to 80 °C	
I		M7	9.3-10.0	0.5	20	1.22	5	5	-30 to +85	

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.
Tel: (408) 266-7404 FAX: (408) 266-4483
WEB: www.raditek.com E-mail: sales@raditek.com

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Dimensions

Model#		W +/-0.003"	L +/-0.003"	H Max	N	X	S	Customer part #	Notes
M1	**in**	0.470	0.470	0.110	0.235	ns	0.025	094-020081-072-6	Mica Replacements
M1	**mm**	11.938	11.938	2.79	5.969	ns	0.635		
M2	**in**	0.470	0.420	0.150	0.210	0.225	0.025		H in 2004
M2	**mm**	11.938	10.668	3.810	5.334	5.715	0.635		
M3	**in**	0.330	0.330	0.080	0.145	ns	0.025	094-020081-077	
M3	**mm**	8.382	8.382	2.032	3.683	ns	0.635		
M4	**in**	0.330	0.290	0.150	0.145	ns	0.025		
M4	**mm**	8.382	7.366	3.810	3.683	ns	0.635		
M5	**in**	0.276	0.276	0.197	0.059	ns	0.020		
M5	**mm**	7.010	7.010	5.004	1.499	ns	0.508		
M6	**in**	0.276	0.236	0.158	0.039	ns	0.015		
M6	**mm**	7.010	5.994	4.013	0.991	ns	0.381		
M7	**in**	0.470	0.420	0.134	ns	ns	0.045		
M7	**mm**	11.938	10.668	3.4	ns	ns	1.15		Rfq was 3.0mm max ht

Notes:

- Line width 0.14mm (typical),
- unit should be mounted with thin smear of non conductive epoxy, with temperature of polymerization close to 80 deg c, but important to leave area around microstrip junctions clear to facilitate grounding.
- Distance from a module cover about 1.0 - 1.5mm without any change in performances and about 0.7mm with minimum changes.
- If soldering keep temperature to 130 deg °C for 3 - 5 minutes Max.
- If non ultrasonic wedge bonding heat the unit to 150°C for 3 minutes max
- Maximum temperature during welding process 350°C for 25mSec
- Curing: survives non operating 120 °C for up to 10 min..// 150 °C for up to 3 min.,

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