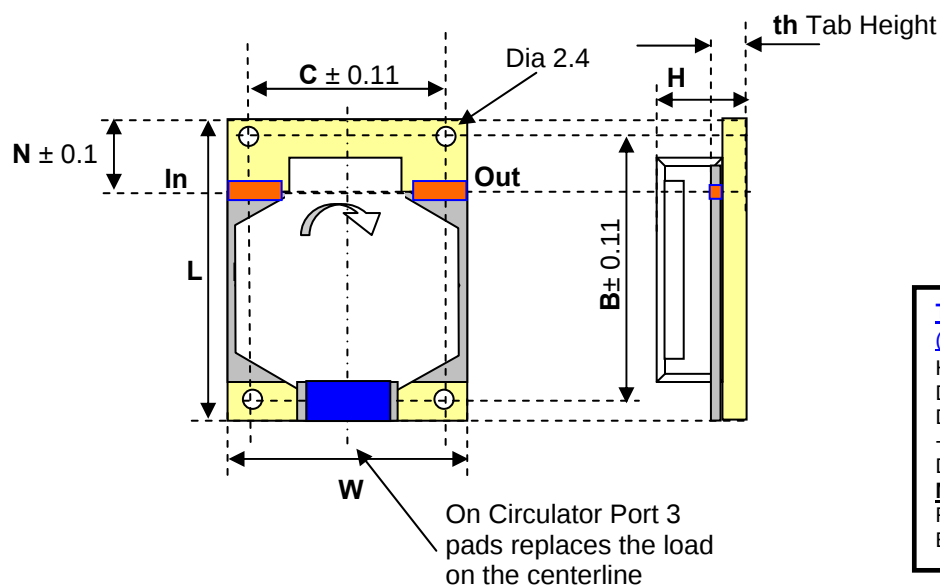


Lumped Element Series, Isolators and Circulators 220-990MHz, MS, 4 Watts (10% Bandwidth)



Tolerance Table Metric (inch)

(unless otherwise stated):

Hole diameter $\pm 0.1\text{mm}$, (± 0.004 ")

Dimensions ($w \times h$) $\pm 0.3\text{mm}$, (± 0.015 ")

Dimensions (Microstrip pad, Stripline Tab, $\pm 0.1\text{mm}$, (± 0.04 ")

Dimensions (hole position) $\pm 0.1\text{mm}$, (± 0.04 ")

Machined surfaces

Flatness 0.025mm , (0.001 " inch)

Bend radius 0.8mm , (0.031 " or $1/32$ ")

Units: Inch(mm)
Not to scale

Note:

Microstripline pads is thin film gold over a copper layer, that will readily accept regular Sn Pb solder.

Soldering is very easy due to the poor thermal conductivity of the ferrite. The interface is also ideal for any kind of gold bonding.

Direction of RF:

R	Default	▶
L		◀

Order Examples: RI-410-430M-MS-4WR-b
I=ISOLATOR / C=CIRCULATOR

Typical frequency bands (others available)

Dimensions (Units: mm)

	W	L	H	th	X	B	C	N
a	32	50	17	3.1	2.0	45	27	12
b	32	40	17	3.1	2.0	35	27	12
c	30	36	16	3.1	2.0	31	25	11
d	24	30	15	2.5	1.5	25	19	8

Specifications						Units
Model	a	b	c	c	c	
Frequency	220-310	290-360	350-550	380-440	380-440	MHz
Bandwidth	10%	10%	10%	Full	10%	dB max
Insertion loss	0.7	0.6	0.6	0.9	0.6	dB max
Isolation	18	20	20	18	20	dB min
VSWR (in and out)	1.35:1	1.3:1	1.3:1	1.3:1	1.3:1	max
Operating temperature	-30 to +70	-30 to +70	-30 to +70	-30 to +70	-30 to +70	°C
Storage temperature	-40 to +85	-40 to +85	-40 to +85	-40 to +85	-40 to +85	°C
Forward Power	15	15	15	15	15	Watts
Reverse Power	4	4	4	4	4	Watts

RI-C-220-990M-MSLE1-4WR-b

Specifications may be subject to change

06/14/13

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

Lumped Element Series, Isolators and Circulators **220-990MHz, MS, 4 Watts (10% Bandwidth)**

Typical frequency bands (others available)

Specifications						Units
Model	c	c	d	d	d	
Frequency	400-470	474 -478.5	530-620	600-990	860-940	MHz
Bandwidth	Full	10%	10%	15%		dB max
Insertion loss	0.9	0.6	0.6	0.6	0.7	dB max
Isolation	18	20	20	20	20	dB min
VSWR (in and out)	1.3:1	1.3:1	1.3:1	1.3:1	1.25	max
Operating temperature	-30 to +70	-30 to +70	-30 to +70	-30 to +70	+25	°C
Storage temperature	-40 to +85	-40 to +85	-40 to +85	-40 to +85	-40 to +85	°C
Forward Power	15	15	15	15	15	Watts
Reverse Power	4	4	4	4	4	Watts

Special:

Specifications			Units
Model	b	b	
Frequency	325-355	325-355	MHz
Insertion loss	0.8	1.0	dB max
Isolation	18	16	dB min
VSWR (in and out)	1.3:1	1.4:1	max
Operating temperature	+25	0 to 60	°C
Peak Power	100	100	Watts
Average Power	10	10	Watts