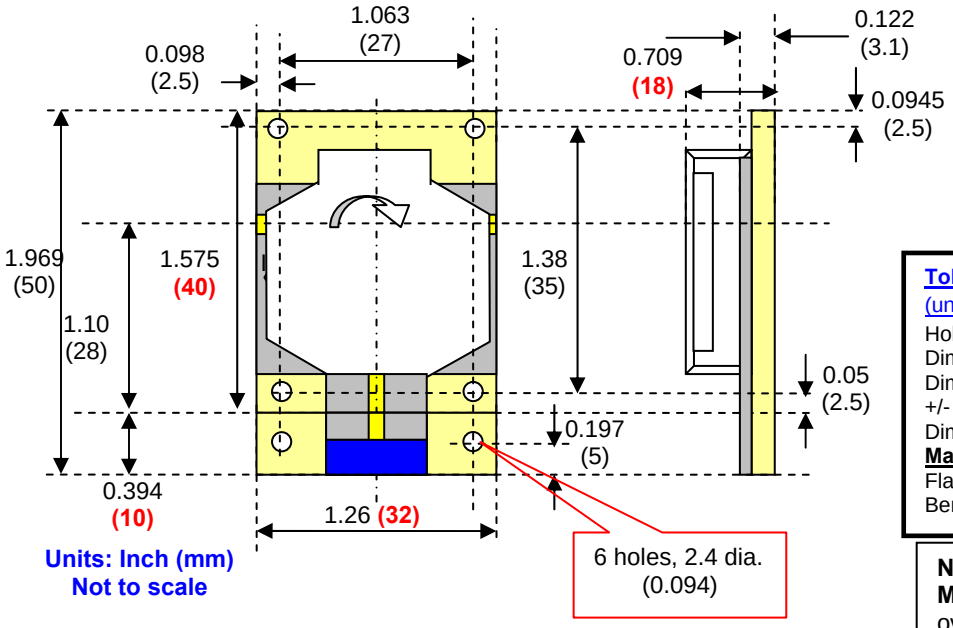
RADITEK INC.

RoHS COMPLIANT

code-b

Microstrip, Isolator 183-400 MHz

10, 25 or 50Watts



Units: Inch (mm)
Not to scale

Tolerance Table Metric (inch)
(unless otherwise stated):
Hole diameter +/- 0.1mm, (+/- 0.004")
Dimensions (w*l*h) +/- 0.3 mm, (+/- 0.015")
Dimensions (Microstrip pad, Stripline Tab, +/- 0.1mm, (+/- 0.04")
Dimensions (hole position) +/- 0.1mm, (+/- 0.04")
Machined surfaces
Flatness 0.025/mm, (0.001/ inch)
Bend radius 0.8mm, (0.031" or 1/32")

Note:
Microstripline pads are 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 king of gold bonding.

Direction of RF:	
R	Default ▶
L	◀

Circulator versions available

Order Examples: RADI-183-185M-MS-50WR
I=ISOLATOR

Specifications						Units
Frequency	183 to 185	183 to 185	190-210	210 to 230	230-250	MHz
Insertion loss	0.7	0.7	0.7	0.7	0.7	dB
Isolation	18	18	18	18	19	dB
VSWR (in and out)	1.25:1	1.25:1	1.3:1	1.3:1	1.28:1	(max.)
Forward power	100	100	100	100	100	Watts (max.)
Reverse power	0.1	10/25/50	50	50	50	Watts
Operating temperature	-25 to 55	-25 to 55	-25 to 55	-10 to 55	-25 to 55	°C
Storage temperature	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	°C

Typical frequency bands (others available)

Specifications						Units
Frequency	240 to 260	340 to 370	370 to 400	370 to 400		MHz
Insertion loss	0.6	0.6	0.4	0.5		dB
Isolation	20	20	23	20		dB
VSWR (in and out)	1.25:1	1.25:1	1.25:1	1.25:1		(max.)
Forward power	100	100	100	50		Watts (max.)
Reverse power	50	50	10/25/50	25		Watts
Operating temperature	-25 to 55	-25 to 55	-25 to 55	-25 to 55		°C
Storage temperature	-40 to 85	-40 to 85	-40 to 85	-40 to 85		°C

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