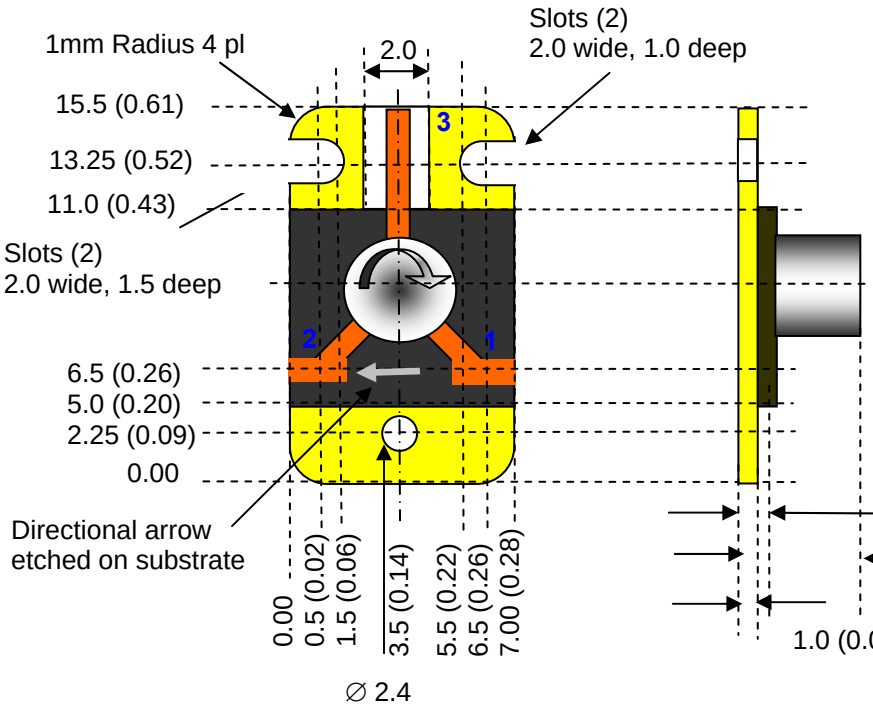
RADITEK INC.

RoHS COMPLIANT

code-b

9.2-17.0GHz Microstrip Circulator on Carrier MS41

1 to 3 GHz Bandwidth

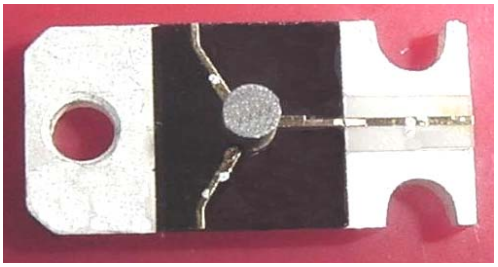


Tolerance Table Metric (inch)
(unless otherwise stated):
Hole diameter +/- 0.1mm, (+/- 0.004")
Dimensions (w*l*h) +/- 0.3 mm, (+/- 0.015")
Dimensions (Microstrip pad,
+/- 0.1mm, (+/- 0.04")
Dimensions (hole position) +/- 0.1mm, (+/- 0.04")
Machined surfaces
Flatness 0.025/mm, (0.001/ inch)
Bend radius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

Do not heat above 130°C
Max temperature during welding process
+350°C @ 25m sec

Units: mm(Inch)
Not to scale

Direction of RF:	
R	Default ▶
L	◀



Order Examples: RADC-14.0-14.5-MS41-10WR

Option: -HI (High Impact) Lower Magnet, Stronger adhesive, Reinforcing adhesive around magnet

Specifications:					Units
Bandwidth	1.0	1.5	2.0	3.0	GHz
Insertion loss (I.L.) P1-P2 Insertion loss (I.L.) Other port	0.5 0.6	0.6 0.7	0.7 0.8	1 1.1	dB (maximum)
Isolation	18	17	15	13	dB (minimum)
VSWR Return loss	1.24:1 19.401	1.3:1 17.690	1.4:1 15.563	1.5:1 13.979	 dB
Rated power- Forward	10	10	10	10	Watts (maximum)
Rated power- Reverse	10	10	10	10	Watts (maximum)

Standard operating Temperature –40 to 70°C. Storage Temperature: –40 to 85°C

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1 to 3 GHz Bandwidth

Specifications

	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	Power Fwd	Power Rev	Temperature °C	% BW	code
MS41	**9.2-9.6**	0.5	20	1.25:1	20Pk	10	**–40 to +70**		
MS41	**10.5-11.0**	0.5	20	1.25:1	20Pk	10	**–40 to +70**		
MS41	**13.5-14.5**	0.5/0.6	18	1.24:1	20Pk	20	**–40 to +70**		
MS41	**13.5-14.7**	0.65	19	1.25:1	3		**–40 to +70**		e
MS41	**13.5-14.7**	0.8	20	1.22:1	3		**–40 to +70**		b
MS41	**13.5-14.75**	0.8	20	1.22:1	3	3	**–40 to +70**		
MS41	**13.75-14.5**	0.5	20	1.25:1	20Pk	20	**–40 to +70**		
MS41	**14.0-14.5**	0.5	19	1.24:1	10	10	**–40 to +70**		
MS41	**14.7-15.2**	0.8	20	1.22:1	20	3	**–40 to +70**		b
MS41	**14.7-15.3**	0.8	20	1.22:1	20	3	**–40 to +70**		b
MS41	**15.2-18.2**	0.6	19	1.3:1	10	10	**–40 to +70**		
MS41	**15.5-17.5**	0.6	20	1.25:1	10	10	**RT**		
MS41	**15.5-17.5**	0.7	18	1.30:1	10	10	**--30 to +70**		
MS41	**15.5-17.5**	0.7	15	1.4:1	10	10	**-54 to +85**		
MS41	**16.0-17.0**	0.6	20	1.25:1	10	10			b
MS41	**16.0-17.0**	0.6	17	1.33:1	10	10	**-40 to +70**		e
MS41	**16.7-17.3**	0.6	17	1.33:1	3	3	**-40 to +70**		p
MS41	**17.0-17.5**	0.5	18	1.25:1	10	10	**–40 to +70**		

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