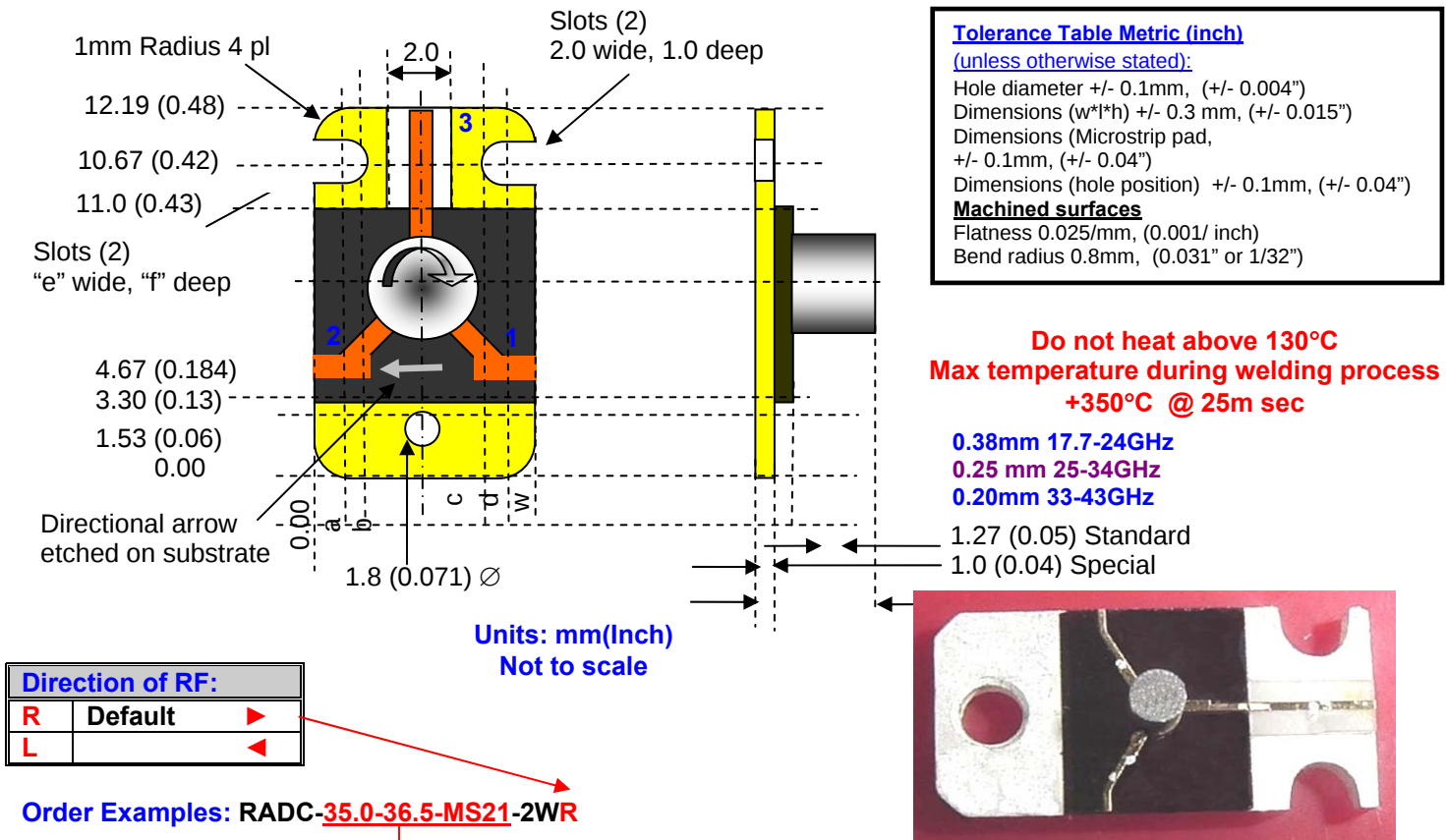


17.7-43GHz Microstrip Circulator on carrier MS21 & MS31 1 to 4 GHz Bandwidth



Specifications:					Units
Bandwidth	1.0	1.5	2.0	3.0	GHz
Insertion loss (I.L.)	0.8	0.9	1.0	1.1	dB (maximum)
Isolation	20	20	20	20	dB (minimum)
VSWR	1.3	1.3	1.3	1.3	
Return loss	17.7	17.7	17.7	17.7	dB
Rated power-Forward	2.0	2.0	2.0	2.0	Watts (maximum)
Rated power-Reverse	2.0	2.0	2.0	2.0	Watts (maximum)

Standard Operating Temperature -40 to 75°C. Storage Temperature: -40 to 85°C

High temperature option (-HT): 85°C: (I.L. Spec. increases by 0.1 dB, isolation decreases to 18 dB VSWR < 1.3:1)

RADC-17.7-43-MS21,MS31-2.0W (1-4GHz BW)

Specifications may be subject to change

06/19/13

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17.7-43GHz Microstrip Circulator on carrier MS21 & MS31 1 to 4 GHz Bandwidth

Specifications

Model	Freq. GHz	Insert Loss <dB P1-P2	Insert Loss <dB P2-P3 P3-P1	Isol. >dB	Return loss >dB	VSWR	Power Fwd Watts	Power Rev Watts	Temperature °C	Code
MS31	18.86-19.26	0.8		20	17.7	1.3:1	2	2	-40 to +70	p
MS31	22-25	1.1	1.15	17	17.7	1.3:1	2	2	-40 to +70	p
MS31	23-25	0.8 0.9		20 20	17.7 19.2	1.25:1 1.30:1	10	1	+25 -30 to +60	b
MS31	24.5-26.5	0.8 0.9		20 18		1.25:1 1.30:1	1	1	-10 to +60 -40 to +70	b
MS31	29.0-30.5	0.9		19	17.7	1.3:1	2	2	-40 to +70	p
MS21	33-35	1.0		18	17.7	1.3:1	2	2	-40 to +70	p
MS21	33.5-34.5	0.9		18	17.7	1.3:1	2	2	-40 to +70	e
MS21	33.5-34.5	0.9		20	17.7	1.3:1	1 or 2	1 or 2	-10 to +50	b
MS21	33.5-34.5	0.9		19	17.7	1.3:1	1 or 2	1 or 2	-10 to +85	b
MS21	34-35	1.0		20	17.7	1.3:1	2	2	-30 to +70	p
MS21	34-36	1.0		20	17.7	1.3:1	2 or 4	2 or 4	-30 to +70	b
MS21	34-36 -55 to 85C	1.0 (1.3)	1.1	20 (18)	17.7 (15.6)	1.3 :1 (1.4:1)	1	1	Room (-55 to 85)	b
MS21	34.35-34.65	0.7 (0.9)		23 (20)	20.8 (17.7)	1.2:1 (1.3:1)	5	5	Room (-30 to +70)	b
MS21	34.5-35.5	0.9		18	17.7	1.3:1	1	1	-30 to +70	e
MS21	35.4-35.6	0.9		17	16.7	1.35:1	0.5	0.53	-30 to +70	e
MS21	35.48-35.52	0.8		20	17.7	1.3:1	3	3	-30 to +70	b