

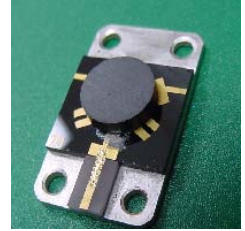
RDKF Isolators / RDKC Circulators

4 Hole models: Microstrip isolators and circulators (1.7 to 16.0 GHz)

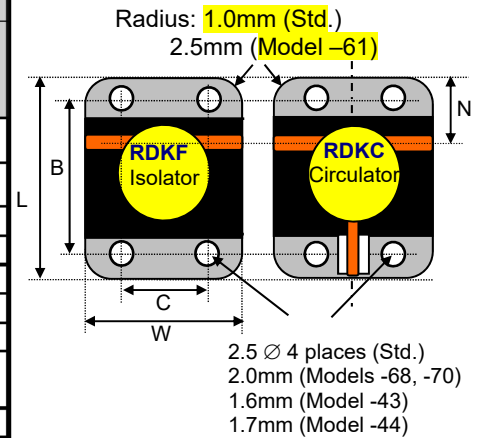
-recommend RADC MS51 series over 6GHz

The RDKF(C) series of isolators and circulators are designed to meet all of your Microstrip requirements. They can be optimized to your exact frequency needs. Standard dimensions include drop-in replacements for FDK and TDK (for example).

All thin film isolator circuits are gold on copper, suitable for soldering (very easy with regular solder, (silver solder preferred), or gold thermo-compression bonding

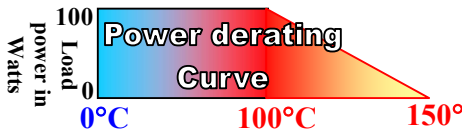
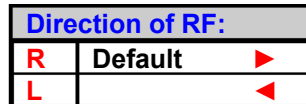


General specifications:							
Model foot print	Frequency (GHz)	% bw max	Fwd Power max	Available loads. Watts	Pad height mm	Height Mm max	Pad width mm
-80	1.7-3.0	25	15	0.25,1,2,10	2.2	6.0	* See page 11
-78	2.8-3.7		10	5	1.3	6.0	* See page 11
-70/ 71	3-11	17	10/25	0.25,1,2,5,10,15,20	2.2	6.0	1.0/0.8
-68	3.7-12		20	0.2W	2.2	6.5	
-65	3.7 - 5.8	14	25	20,25	1.85	6.0	
-64	9.1-9.5	10	30	30	2.2	6.1	
-63	9.5-10.5	10	25	20	1.635	5.5	
-61	4 - 9	18	20/50	0.25,2,8,10,15, 20	1.85 (2.45)	5.5	0.43
-43	9.0-16.0	10	15/25/30	1,2,10,12, 15, 20*	1.65	5.65	0.43
-49	14.0-14.5	10	12	2, 10, 12 Max	1.50	4.6	



-43 20W load sticks out 0.5mm at the base of the unit
 Ensure carrier temperature does not exceed 100C, Assumes infinite heat sink
 Load temp to be kept < 100°C Units over 20W must be mounted on a good heat sink
 Heat sink temperature must not exceed the maximum operating temperature specified

Operating Temp.	-40 to +70°C
Storage Temp.	-40 to +85°C



	Dimensions (Units: mm)				
	W	L	B	C	N
-80	20	30	25	15	6.5*
-78	15	28	23	10	9
-71	15	25	20	10	8
-70	15	25	20	10	9
-68	15	20	16	11	7.2
-65	12.7	24	19	7.7	9
64b	12.7	24	19.7	7.7	6.5
-63	9	19	14	6	7.5
-61	12.0	20	15	7	6.5
-43	10.2	17	14	7.4	7.0
-49	7.1	13.2	10.4	4.3	4.84

Tolerance (w*h) + 0/- 0.04 mm,
 pad position +/- 0.1mm
 +/- 0.1 Holes/ slot centers

Specification may be subject to change
 Do not heat above 130°C

Humidity 5-95% non-condensing
 Max temperature during welding +350°C for 25msec

Extended Temperature range

At 80 °C, add 0.1 dB to Insertion Loss, and subtract 1.0 dB from Isolation
 At 90C °C, add 0.3 dB to Insertion Loss, and subtract 4.0 dB from Isolation
 At 100C °C, add 0.4 dB to Insertion Loss, and subtract 5.0 dB from Isolation

Higher temperature parts with better spec available

Ordering information: example RDKF-3.7-4.2-70-1WR (Isolator)
 Use part # in format as: **RDKF-F_L-F_H-Model-Power_{rev} Direction**
 F_L-Lower frequency-F_H Higher frequency, Model (70/61 etc),
 Reverse (load) Power (ie 1Watt) Power direction {R= Clockwise, or left to right (default) or L= Counter clockwise.}-Option

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-80	1.7-1.9	0.5 0.7	20 18	1.25:1 1.30:1		b	room 0 to +60, 10W
-80	1.7-2.1	0.8 1.1	18 15	1.35:1 1.55:1		b	room -10 to +60, 1W
-80	1.7-2.1	0.6 0.8	18 16	1.30:1 1.40:1		b	room -10 to +50, 10W
-80 (C)	1.745-1.870	0.5	20	1.25:1		b	10W
-80	1.8-2.0	0.5 0.7	20 17	1.25:1 1.30:1		b	room 0 to +60, 2Watt
-80	1.9-2.1	0.5 0.7	20 18	1.25:1 1.30:1		b	room 0 to +50, 0.5, 1 or 10W
-80	1.9-2.4	0.6	17	1.30:1	0.7	e	-30°C +70°C
-80	1.9-2.4	0.6	19	1.25:1		b	1W or 10W
-80	1.9-2.6	0.6	17	1.30:1	0.7	e	500M Bw, -30 to +70
-80	1.9-2.6	0.6 0.8	18 16	1.30:1 1.40:1		b	room 0 to +60
-80	1.9-2.6	0.6 0.7	18 17	1.30:1 1.40:1		b 2/24/11	room -30 to +60 °C
-80 (C)	1.920-2.170	0.5	20	1.25:1		b	10W
-80	2.0-2.4	0.6 0.8	19 17	1.25:1 1.35:1		b	room, -10 to+60, 1W
-80	2.0-2.5	0.6	17	1.30:1	0.7		-30°C +70°C
-80 (I or C)	2.0-2.5	0.6	18	1.30:1		b	0 to +50 °C, 2W or 10W
-80(I or C) (1045)	2.0-2.5	0.7	18	1.30:1		b	10 to+45 °C, 10W
-80	2.1-2.3	0.5	19	1.30:1	0.7	p	-30°C +70°C
-80 (I)	2.1-2.35	0.5 0.6	20 18	1.25:1 1.30:1		b	Room 0 to +50 °C, 10W
-80	2.1-2.4	0.5	19	1.30:1	0.7	p	-30°C +70°C
-80 (I)	2.1-2.4	0.5 0.7	20 18	1.25:1 1.30:1		b	Room 0 to +50 °C, 10W
-80	2.2-2.3	0.4	20	1.28:1	0.7	p	-30°C +70°C
-80 (C)	2.2-2.3	0.5 0.7	20 18	1.25:1 1.30:1		b	Room 0 to +50 °C, 10W Ave
-80	2.2-2.35	0.4	20	1.25:1	0.7	e	-30°C +65°C
-80 (4070)	2.2-2.4	0.5 0.9	20 16	1.25:1 1.40:1		b	room, -40 to+70 °C, 1W
-80	2.2-2.4	0.5 0.9	20 16	1.25:1 1.40:1		b	room, -40 to+70 °C, 5W CW
-80 (4070)	2.2-2.6	0.5 0.8	20 16	1.25:1 1.40:1		b	room, -40 to+70 °C, 1W
-80	2.2-2.7	0.6 0.7	17 16	1.35:1 1.40:1		b 11/13/11	Room -10 to +60 °C
-80	2.35-2.45	0.4	21	1.25:1	0.7	p	-30°C +70°C
-80	2.3-2.5	0.4	20	1.28:1	0.7	e	-30°C +70°C
-80	2.3-2.5	0.5 0.6	20 18	1.25:1 1.30:1		b 2/24/11	Room -30 to +60 °C
-80	2.3-2.7	0.5	20	1.25:1		b	Room

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		0.6	18	1.30:1			-10 to +50
-80 (C)	2.3-2.7	0.5 0.7	20 18	1.25:1 1.30:1		b	Room 0 to +50 °C
-80	2.3-2.7	0.5	20	1.28:1	0.7	e	-30°C +70°C
-80	2.35-2.65	0.4	22	1.25:1	0.7		-30°C +70°C
-80	2.4-2.5	0.4	22	1.25:1	0.7	e	-30°C +70°C
-80 (C)	2.4-2.5	0.5 0.7	20 18	1.25:1 1.30:1		b	Room 0 to +50, 1Watt
-80	2.4-2.52	0.4	20	1.25:1	0.7	e	-30°C +65°C
-80 (4070)	2.4-2.6	0.5 0.8	20 17	1.25:1 1.35:1		b	room, -40 to+70 °C, 1W
-80	2.4-2.7	0.5	20	1.22:1	0.7	p	
-80	2.4-2.8	0.5	20	1.22:1	0.7	e	-30°C +70°C
-80 (I)	2.45-2.95	0.6 0.8	18 16	1.30:1 1.40:1		b	Room -10 to +50 °C
-80 (I)	2.5-2.7	0.5 0.6	20 18	1.25:1 1.30:1		b	Room -10 to +60 °C, 1W, b
-80 (I & C)	2.5-2.7	0.5	20	1.25:1		b	10W
-80	2.5-3.5 (500MHz BW)	0.6 0.8	18 17	1.30:1 1.40:1		b	Room 0 to +50 °C
-80	2.7-2.9	0.4	20	1.20:1	0.7	e	-30°C +70°C
-80 (C)	2.7-3.0	0.5 0.7	19 18	1.25:1 1.30:1		b	Room -10 to +60 °C, 10W
-80 (I)	2.7-3.0	0.5 0.7	20 18	1.25:1 1.30:1		b	Room -10 to +60 °C, 10W
-78 (C)	2.7-3.8	0.7	17	1.35:1		b	-10 to +50, 10W
-78 (I)	2.7-3.8	0.7	17	1.35:1		b	-10 to +50, 1W, weight: 5gram/piece
-78 (4070)	2.8-3.2	0.5 0.8	20 17	1.25:1 1.35:1		b	room, -40 to+70 °C, 5W
-78 (I)	2.88-3.52	0.5 0.6	19 18	1.25:1 1.30:1		b	room, -10 to+50 °C, 1.25W Rev/ 5W Fwd
-78 (I) (0.35)	2.88-3.52	0.35 0.45	19 18	1.25:1 1.30:1		b	room, -10 to+50 °C, 1.25W Rev/ 5W Fwd
-78 (I)	2.9-3.7 (800MHz BW)	0.6	18	1.30		b	0 to +50 °C, 1W Rev, 1W Fwd
-71	2.9-3.1	0.5	20	1.3:1	0.8	b	Special
-71	4.0-4.4	0.5	20	1.25:1	0.8	b	
-71	4.125-4.275	0.4	20	1.25:1		b	2W
-70	2.8-3.5	0.6	18	1.30:1			20W, b
-70	2.9-3.1	0.5	20	1.25:1	0.8	p	
-70	3.0-3.2	0.5 0.7	20 18	1.25:1 1.30:1		b	+25 -10 to +50 °C, 1W
-70	3.0-3.3	0.6	18	1.25:1	0.8		
-70	3.0-4.2	0.6	18	1.30:1	0.8		

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-70	3.05-3.5	0.6	18	1.30:1	0.8	p	
-70	3.05-3.55	0.6	18	1.30:1	0.8	p	
-70	3.1-3.3	0.5	20	1.20:1	0.8		
-70	3.1-3.4	0.5	20	1.20:1	0.8		
-70	3.1-3.6	0.6	18	1.30:1		b	Approx. Wt. 6g
-70	3.1-3.6	0.5	18	1.35:1		b	-30 to +70 °C
-70	3.1-3.6	0.6	18	1.25:1	0.8	e	
-70	3.16-3.24	0.4	21	1.20:1		p	20W Rev/ 25W Fwd
-70	3.2-3.4	0.5	20	1.20:1		p	
-70	3.25-3.95	0.6	18	1.30:1		b	3W
-70	3.3-3.5	0.4	20	1.25:1		e	-30°C +65°C
-70 (I)	3.4-3.6	0.4	20	1.25:1		b	room
		0.5	18	1.30:1			-10 to +60 °C, 1W, b
-70	3.4-3.6	0.5	20	1.20:1			
-70 (C)	3.4-3.9	0.5	20	1.25:1		b	Room
		0.6	18	1.30:1			-30 to +50 °C, 25W Average , b
-70	3.3-4.1	0.6	18	1.30:1		b	
-70	3.4-4.2	0.5	20	1.25:1		e	
-70	3.4-4.2	0.6	20	1.25:1		b	2W
-70	3.5-4.5	0.5	20	1.20:1		b	
-70	3.6-3.8	0.4	21	1.20:1			Tbc
-70	3.6-4.2	0.5	20	1.25:1			
-70	3.6-4.4	0.6	20	1.30:1		b	
-70 (I/C)	3.7-4.2	0.5	20	1.30:1		b	1W, 0 to +50 °C
		0.4	20	1.25:1		b	+25
		0.5	18	1.30:1			-10 to + 70°C, 15W
-70	3.75-4.25	0.5	20	1.20:1			
-70	3.8-4.2	0.5	20	1.20:1		b	
-70	3.8-4.2	0.5	20	1.25:1		b	
-70	3.8-4.6	0.5	20	1.25:1		b	room
		0.6	18	1.30:1			-10 to+70 °C, 1Watt
-70	3.8-4.6	0.5	20	1.25:1		b	room
		0.6	18	1.30:1			-10 to+70 °C, 6W/ 10W Rev, 25W Fwd
-70z	3.8-4.6	0.6	20	1.30:1		p	special marking on substrate "Raditek" "89I-1372P002", Approx.Wt. 0.5g
-70	3.9-4.2	0.5	20	1.25:1		p	
-70	3.9-4.5	0.6	18	1.30:1		p	
-70	4.0-4.5	0.5	20	1.25:1		b	1W, +10 to +60
-70	4.0-5.0	0.6	18	1.30:1		b	
-70	4.1-5.0	0.6	18	1.30:1		b	
-70 (C)	4.2-4.3	0.5	20	1.25:1		b	1W, +10 to +60
-70	4.2-4.4	0.5	20	1.20:1			
-70	4.3-5.0	0.4	20	1.20:1		p	
-70	4.3-5.1	0.4	20	1.20:1			
-70	4.40-4.45	0.4	21	1.20:1		p	
-70	4.4-4.8	0.5	20	1.25:1		b	room
		0.6	18	1.30:1			-30 to +50 °C
-70	4.4-5.0	0.5	20	1.22:1		b	

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-70	4.4-5.1	0.6	19	1.25:1		p	
-70 (C)	4.4-5.9	0.6	18	1.30:1		b	0 to +50, 40W forward
-70	4.67-4.9	0.4	21	1.20:1		p	
-70	4.85-4.95	0.4	20	1.20:1		e	
-70	4.8-5.6	0.4	20	1.20:1		p	
-70	4.8-5.8	0.4	20	1.20:1		p	
-70	4.9-5.7	0.4	20	1.20:1			
-70	4.9-5.9	0.4	18	1.25:1			
-70	4.9-5.9	0.5 0.6	20 18	1.25:1 1.30:1		b	+25 -10 to + 60°C, 30W - Circulator
-70	5.0-5.3	0.4	18	1.25:1		b	
-70	5.0-5.9	0.6	18	1.30:1		b	
-70	5.0-6.0	0.5	20	1.25:1		b	1W
-70	5.1-6.1	0.5	18	1.35:1		b	9-20-06
-70	5.25-5.85	0.5	18	1.35:1		p	9-20-06
-70	5.3-5.9	0.5	18	1.35:1		p	
-70	5.5-6.4	0.5	18	1.30:1		p	
-70	5.60-5.65	0.4	18	1.25:1		p	
-70	5.7-5.9	0.5	18	1.35:1		p	
-70	5.8-6.7	0.5	18	1.30:1		b	10W Rev /50W Fw, 60W 300W peak
-70	9-11	0.4	20	1.25:1		b	-10 to +50, 25W Ave Fwd , 120W Fwd Pk, 15W Rev Pk
-68	2.95-3.45	0.6 0.8	19 17	1.30:1 1.35:1	Size -68 15x20x5.5	b	room -15 to +55C, 2W Rev/ 2W Fwd
-68	3.7-4.1	0.4	20	1.20:1			
-68	3.7-4.2	0.5	20	1.30:1		b	
-68	7-11	0.8	17	1.40:1		b	
-68	7.0-12.0	0.8	17	1.40:1		b	
-68	8.0-12.0	0.4	20	1.20:1			10W Fwd/2W Rev
-68	8.1-9.8	0.6	19	1.30:1		b	
-65	4.0-4.5	0.5	19	1.25:1		p	
-65	4.4-4.6	0.4	22	1.25:1		b	
-65	4.4-5.1	0.5	20	1.22:1			
-65	4.4-5.0	0.5	20	1.25:1			10W
-65	4.4-5.5	0.5	20	1.25:1		b	8W
-65	5.2-5.9	0.5 0.7	20 17	1.25:1 1.35:1		b	+25 to +35C -40 to +75C, 2W
-65	5.3-5.6	0.4	20	1.25:1		b	
-65 (I)	5.79-5.81	0.5	20	1.25:1		b	-30 to +70, 20W CW
-65	5.8-6.5	0.5	20	1.25:1		b	-40 to +80
-65	8-12	0.7 1.0	20 17	1.25:1 1.40:1		b	room -55 to +85, 1 or 12WR/ 10W Fwd
-64	5.2-5.9	0.5	19	1.25:1		b	-20 to 70C
-64	9.1-9.3	0.5	20	1.22:1		e	
-63	9.1-9.3	0.6	18	1.25:1		e	25W Fwd/ 20WRev, -40 to +70C
-63	9.5-10.5	0.6	19	1.30:1		e	-30 to 60C

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-61	4-5	0.5	20	1.20:1		b	1W, -40 to +60C
-61	4.35-4.65	0.4	20	1.25:1		e/b	
-61	4.39-5.01	0.5	18	1.25:1		p	Pad Height 2.45, 2Watt
-61	4.39-5.01	0.5	18	1.25:1		b	-10 to +50, 15Watt (Isolator)
-61	4.4-4.6	0.45	21	1.20:1			
-61	4.4-4.7	0.45	21	1.20:1		p	
-61	4.4-5.0	0.5	20	1.22:1	0.43	e	
-61	4.4-5.0	0.5 0.6	20 18	1.25:1 1.30:1		b	room -30 to +60 °C
-61	4.4-5.5	0.5	19	1.25:1		b	-10 to +50, 1Watt (Isolator)
-61	4.4-5.5	0.5	19	1.25:1		b	-10 to +50, 20Watt (Isolator)
-61	4.4-5.5	0.5	18	1.25:1		e	
-61	4.8-5.5	0.5 0.6 0.7	20 18 17	1.25:1 1.30:1 1.35:1		b	room -30 to +50 °C -30 to +85, 10W Circ
-61	4.85-5.05	0.5	20	1.25:1			
-61	4.85-5.85	0.4	20	1.20:1		b	1W, -40 to +70C
-61	4.9-5.0	0.5	20	1.25:1			
-61	4.9-5.2	0.5	20	1.25:1			
-61	4.9-5.8	0.5	20	1.25:1		b	
-61	4.9-5.9	0.4 0.9	20 16	1.25:1 1.40:1		b	Room -45 to +85
-61	4.9-5.9	0.5 0.7	20 17	1.25:1 1.35:1		b	room -10 to +60, to be mounted on heatsink, 20W Rev, 20W Fwd, 20W PK
-61 (I/C)	4.9-5.9	0.5 0.6	20 18	1.25:1 1.30:1		b	0 to +50 °C -30 to +70 °C, 2W CW max.
-61	5.0-5.3	0.6	18	1.35:1		p	
-61	5.0-5.3 (I & C)	0.6	15	1.50:1		b	-55 to +85°C, 5Watt Average forward power, 10Watt Peak
-61	5.0-5.7	0.6	18	1.35:1		P	
-61	5.0-5.9	0.6	18	1.35:1		P	
-61	5.0-5.9	0.6	18	1.35:1		b	3WR/ 30W Fwd
-61	5.0-6.0 (C)	0.5 0.6	19 18	1.25:1 1.30:1		b	+25 -10 to 70C, wide band -b
-61	5.0-6.0	0.5 0.6	20 18	1.25:1 1.30:1		b 2/24/11	room -30 to +70
-61	5.0-6.0	0.5 0.6	20 18	1.25:1 1.30:1		b	Room (3WR/ 30W Fwd) -30 to +70
-61	5.5-6.4	0.5 0.6	20 18	1.25:1 1.30:1		b 02/11/13	room -10 to +60 1watt
-61	5.0-6.5	0.6	18	1.35:1		P	
-61	5.0-7.0	0.6	18	1.30:1		e	-20 to 70C
-61	5.0-7.0	0.7	18	1.35:1		B	
-61	5.0-7.2	0.6 0.8	18 15	1.35:1 1.50:1		b	room -10 to +60, 1Watt
-61	5.0-9.0 (C) (15% BW)	0.5 0.6	20 16	1.24:1 1.30:1		b	room -10 to +60
-61	5.1-5.3	0.5	20	1.25:1		e	-30 to 60C

RDKF Isolators / RDKC Circulators

4 Hole models: Microstrip isolators and circulators (1.7 to 16.0 GHz)

-recommend RADC MS51 series over 6GHz

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	Pad width mm	Code	Comments
-61	5.15-5.35	0.5	20	1.25:1		p	
-61	5.1-5.6	0.4	20	1.25:1		e 2-5-05	0 to 50C
-61	5.1-5.8	0.5	20	1.20:1			
-61	5.1-5.9	0.5	18	1.30:1		b	3WR/ 30W Fwd
-61	5.1-6.1	0.6	18	1.30:1		e	-20 to 70C
-61	5.1-6.1	0.5	18	1.30:1		b	3WR/ 30W Fwd
-61	5.2-5.4	0.5	20	1.25:1		b	0 to +50C, 5W/ 10W
-61	5.2-5.5	0.3	20	1.20:1		e	-20 to 60 p
-61	5.2-5.6	0.5	20	1.25:1			
-61	5.2-5.9	0.5	20	1.25:1		b	
-61	5.2-5.9	0.5	20	1.25:1		e 2-8-05	-40 to 70C
-61	5.2-5.9	0.5 0.7	20 17	1.25:1 1.35:1		b	room -40 to +70, to be mounted on heatsink, 20W Rev, 20W Fwd, 20W PK
-61	5.2-6.2	0.6	18	1.30:1		Full temp	-20 to 70C e
-61	5.2-6.2	0.6	18	1.30:1		b	
-61 (C)	5.225-5.475	0.5	18	1.25:1		b	-10 to +60C, 5W Avg/ 25W Pk 20%DC
-61	5.3-5.6	0.5	20	1.20:1			
-61	5.3-5.9	0.5	20	1.25:1			10W
-61	5.3-5.9	0.5	18	1.25:1		b	3WR/30W Fwd
-61	5.4-5.7	0.5	20	1.20:1			
-61 (C)	5.4-5.9	0.4	20	1.25:1		b	-10 to +60
-61 (C)	5.4-5.9	0.4 0.6	20 18	1.25:1 1.30:1		b	room -40 to +80C 25W Peak, 150us pulse width, 25% duty cycle
-61 (C)	5.4-5.9	0.5 0.6	20 18	1.25:1 1.30:1		b	room -10 to +60C 8W average, 80W Peak in 10% duty cycle, b
-61	5.4-6.2	0.5 0.7	20 18	1.25:1 1.35:1		b	+25 -15 to +55C, 0.5W CW
-61	5.47-5.73	0.5	20	1.20:1			
-61	5.47-5.725	0.5	20	1.20:1			
-61 (DJ)	5.6-5.7	0.4 (SJ) 0.8 (DJ)	20 (SJ) 38 (DJ)	1.25:1		b	-10 to +50, 0.6W rev/ 0.6 Fwd, 60W Pk, 1% duty cycle
-61	5.6-6.0	0.5	20	1.20:1		p	
-61	5.6-6.0	0.4 0.5	20 18	1.20:1 1.30:1		b	Room -30 to 70C
-61	5.6-7.4	0.8	18	1.35:1		p	
-61	5.8-7.2	0.75	18	1.35:1		b	
-61	5.625-6.825	0.7	19	1.30:1		b, e	
-61	5.6-6.5	0.5	20	1.25:1		e	
-61	5.6-8.5	0.8	18	1.35:1		e, b	
-61	5.7-5.9	0.5	20	1.25:1		e	-30 to 60C
-61	5.7-5.9	0.4 0.5	20 18	1.25:1 1.30:1		b	Room -30 to 70C
-61	5.7-6.0	0.5	20	1.25:1		p	
-61	5.7-7.1	0.5	18	1.30:1		b	-30 to +85 °C, 0.5/20/1.3 @ RT 0.6/18/1.35 @ -10 to 70C

RDKF Isolators / RDKC Circulators

4 Hole models: Microstrip isolators and circulators (1.7 to 16.0 GHz)

-recommend RADC MS51 series over 6GHz

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	Pad width mm	Code	Comments
-61	5.7-7.1	0.5	20	1.25:1		e	CM
-61	5.8-6.4	0.4 0.5	20 18	1.25:1 1.30:1		b	room -10 to +70°C, 2W
-61	5.8-6.4	0.5	20	1.25:1			
-61	5.8-6.5	0.5 0.6	20 18	1.25:1 1.30:1		b	+25 -30 to +60C
-61	5.8-6.6	0.5	20	1.25:1		p	
-61	5.8-6.7	0.5	20	1.25:1		b	10W Average
-61	5.8-6.7	0.6	18	1.30:1		b	10W/50Wfrd
-61	5.8-7.1	0.4 0.5	20 18	1.25:1 1.30:1		b	-10 to +50 °C -40 to +70 °C, 20W, Approx. Wt. 2.8g, b
-61	5.8-7.2	0.5 0.7	20 16	1.30:1 1.40:1		b	+25 -30 to +85 °C, 8W, b
-61	5.8-7.2	0.4 0.5	20 18	1.25:1 1.30:1		b	+25 -30 to +70 °C, 2W, b
-61	5.8-7.2	0.6	20	1.30:1	-30 to +85 °C	e	0.4/21/1.2 @-10 to +60 °C
-61	5.8-8.5	0.7	18	1.35:1		b	2W
-61	5.85-6.15	0.4	20	1.25:1		e/b	
-61	5.85-6.40	0.5	18	1.30:1		b	-30 to +70, 40Watt Operating average power max, 25Watt Power in Load
-61	5.85-7.02	0.5	20	1.25:1		p	
-61	5.9-6.1	0.5	20	1.25:1			
-61	5.9-6.4	0.5	20	1.25:1		e	
-61	5.9-6.4	0.4 0.5	20 18	1.25:1 1.30:1		b	+25 -10 to +60 °C, 15W
-61	5.9-6.5	0.6	18	1.30:1		e	9-30-05
-61	5.9-6.5	0.4 0.5	20 18	1.25:1 1.30:1		b	room -30 to +60, 15W to be mounted on the heatsink
-61	5.9-7.2	0.65	18	1.30:1			
-61	5.9-7.5	0.7	18	1.30:1			
-61 (I)	6.0-6.5	0.4 0.7	20 17	1.25:1 1.35:1		b	room -40 to +85 °C, 1W CW Rev, 10W CW Fwd
-61 (C)	6.0-6.5	0.4 0.7	20 17	1.25:1 1.35:1		b	room -40 to +85 °C, 10W CW
-61	6.0-8.0	0.7	18	1.35:1		b	
-61	6.0-8.5	0.6 0.8	18 16	1.35:1 1.40:1		b	room -10 to +60, 1Watt
-61	6.3-8.0	0.5	20	1.25:1		e	-30 to +70 °C
-61WB	6-18	1.4	10	1.90:1		b	Height 5.00mm max
-61	6.1-7.3	0.5	20	1.25:1		b	
-61	6.2-7.4	0.4	20	1.25:1		b	
-61	6.3-6.5	0.5	20	1.25:1		p	
-61	6.4-6.5	0.4	20	1.25:1		P	
-61	6.4-7.1	0.5	20	1.25:1		P	
-61	6.425-7.125	0.5	20	1.25:1		P	
-61	6.4-7.2	0.5	20	1.25:1			
-61	6.4-7.2	0.4 0.5	20 18	1.25:1 1.30:1		b	+25 -10 to +60 °C, 15W

RDKF Isolators / RDKC Circulators

4 Hole models: Microstrip isolators and circulators (1.7 to 16.0 GHz)

-recommend RADC MS51 series over 6GHz

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	Pad width mm	Code	Comments
-61	6.4-7.4	0.6	19	1.30:1		p	
-61	6.4-7.6	0.7	18	1.35:1		p	
-61	6.5-6.9	0.4 0.5	20 18	1.25:1 1.30:1		b	room -30 to +60, 15W to be mounted on the heatsink
-61	6.6-6.8	0.4	20	1.25:1		e	-30°C +65°C
-61	6.5-7.5	0.5	20	1.25		B	-10 to +50, b
-61	6.6-7.2	0.4 0.5	20 18	1.25:1 1.30:1		b	room -10 to +70°C, 2W
-61 (C)	6.6-7.8	0.5	19	1.25:1		b	-10 to +50, 1W
-61 (I)	6.6-7.8	0.5	20	1.25:1		b	-10 to +50, 1W
-61	6.7-7.15	0.5	20	1.25:1		p	
-61	6.7-7.2	0.5	20	1.25:1			
-61	6.8-7.2	0.5	20	1.25:1			
-61	6.9-7.8	0.7	18	1.35:1		p	
-61	6.9-8.1	0.6	19	1.30:1		p	
-61 (C)	7.0-8.5	0.5	18	1.30:1		b	-10 to +50, 10W, b
-61	7.0-9.0	0.7	18	1.30:1		b	
-61	7.0-10.0	0.6 0.8	17 15	1.35:1 1.50:1		b 11/13/11	room -30 to +70C
-61	7.125-7.725	0.5	20	1.25:1		e	
-61	7.1-7.7	0.5	20	1.25:1		p	
-61	7.1-7.8	0.5	20	1.25:1		e, b	-30 to 60C
-61	7.1-7.8	0.5	20	1.25:1		b	-10 to +50C, 1W (counter clockwise)
-61	7.1-7.9	0.5	20	1.30:1		e	
-61	7.1-7.9	0.4	20	1.25:1		b	-10 to +50C, 1W
-61	7.1-8.5	0.5	20	1.35:1		b	4W Rev/10W Fwd
-61	7.1-8.5	0.5	18	1.30:1		b	2WR/ 2W Fwd, -40 to +70C
-61	7.1-8.6	0.4	20	1.22:1			STD Low Power
-61	7.1-8.6	0.5	20	1.25:1			20W/20W hp ferrite
-61	7.2-8.5	0.45	20	1.25:1		e	
-61	7.22-7.78	0.4	20	1.25:1		b	-10 to +50, 1W
-61	7.25-7.75	0.5	20	1.25:1		p	
-61	7.4-7.8	0.4	20	1.25:1			
-61	7.4-7.8	0.4 0.5	20 18	1.25:1 1.30:1		b	room -30 to +60, 15W to be mounted on the heatsink
-61	7.7-8.5	0.45	20	1.25:1		e	
-61	7.725-8.5	0.4	20	1.22:1			
-61	7.8-8.5	0.5	20	1.25:1		p	
-61	7.8-8.7	0.5	20	1.25:1		b	
-61	7.85-8.15	0.4	20	1.25:1		e/b	
-61	7.9-8.4	0.4	20	1.25:1		b	10W Rev, 10W Fwd
-61	7.9-8.6	0.45	20	1.25:1		e	
-61	7.9-8.5	0.45	20	1.25:1		e	
-49	13.75-14.5	0.6	20	1.30:1		b/e	12w max 4x4mm load
-49	12.75-13.25	0.5	20	1.25:1		b	-40 to 75C

RDKF Isolators / RDKC Circulators

4 Hole models: Microstrip isolators and circulators (1.7 to 16.0 GHz)

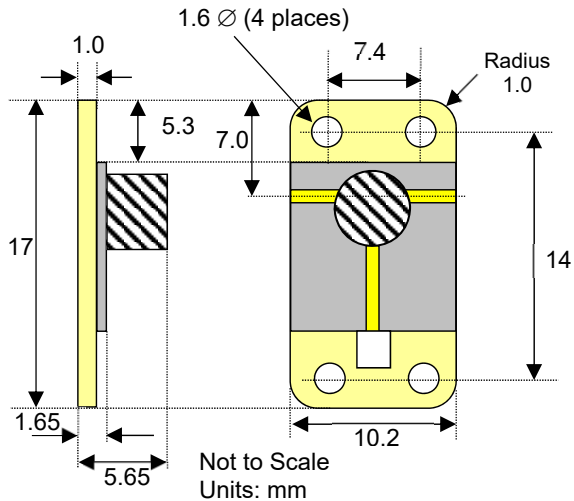
-recommend RADC MS51 series over 6GHz

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	Pad width mm	Code	Comments
-43	8.8-10.2	0.6	18	1.25:1		e	5-3-07
-43	8.8-10.2	0.6	19	1.25:1		b	-10 to +50
-43	8-12	0.5 0.6	20 18	1.25:1 1.30:1		b	+15 to +35 °C -10 to +60°C, 2W Rev, 10W Fwd.
-43 (I)	8-12	0.7	17	1.35:1		b	-10 to +50, b
-43	9.0-9.2	0.5	20	1.25:1		e	
-43	9.0-9.5	0.5	20	1.25:1		e	
-43	9.0-9.5	0.5	20	1.25:1		b	
-43	9.0-9.8	0.5	20	1.25:1		b	-10 to +50, 20W Rev, 20W Fwd
-43	9.0-10.0	0.5	23	1.25:1		e	CM tbc
-43	9.0-10.5	0.5	19	1.30:1		b	1W
-43	9.0-10.5	0.5	19	1.30:1		b	15W, -10 to +50
-43	9.0-10.5	0.6	19	1.30:1		b/e	20 watts (b)
-43	9.1-9.3	0.5	20	1.25:1		b	
-43	9.3-9.5	0.5	20	1.25:1		b	
-43	9.1-9.5	0.5	20	1.25:1		b	
-43	9.1-9.5	0.5	18	1.30:1		b	-30 to +85, 20W
-43	9.2-9.6	0.5	20	1.25:1		p	
-43	9.2-9.8	0.5	20	1.25:1		p	
-43	9.5-10.5	0.5	20	1.25:1		b	25W Fwd /12W Rev , -40 to +70
-43	9.5-10.5	0.5	20	1.25:1		b	20 watts
-43	9.5-10.5	0.5	20	1.25:1		e	25W fwd /12W rev e 20w fwd/15w rev
-43	9.5-10.5	0.5	20	1.25:1		b only	30W fwd//12rev
-43	9.5-10.5 (C)	0.6	18	1.30:1		b	30W
-43 5080	9.5-10.5	0.5 0.6	20 18	1.25:1 1.30:1		b	+25 -50 to +80°C
-43 55100	9.5-10.5	0.5 0.6	20 17	1.25:1 1.40:1		b	+25 -55 to +100°C
-43	10-15	0.8 1.0	15 14	1.50:1 1.60:1		b	room -10 to +70
-43	11-13	0.5	18	1.3		b	-10 to +50, 10W Average
-43	12.5-14.0	0.5	20	1.22:1		b	15W Rev/ 15W Fwd
-43	13.75-14.50	0.5	20	1.25:1		b	-30 to +70, 25Watt Operating average power max, 15Watt Power in Load
-43	13.8-15.7	0.5	20	1.22:1		b	15W Rev/ 15W Fwd

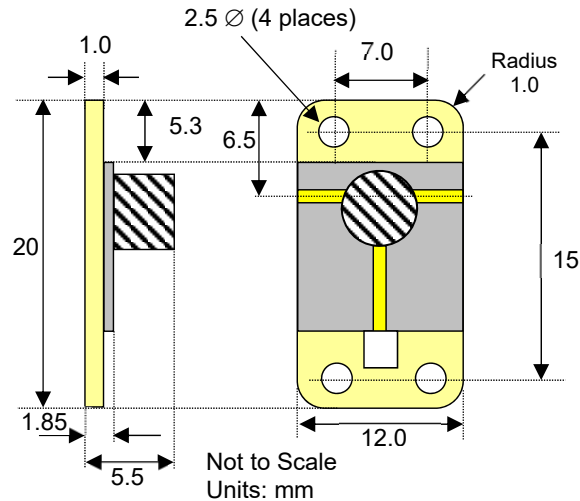
RDKF Isolators / RDKC Circulators

4 Hole models: Microstrip isolators and circulators (1.7 to 16.0 GHz)

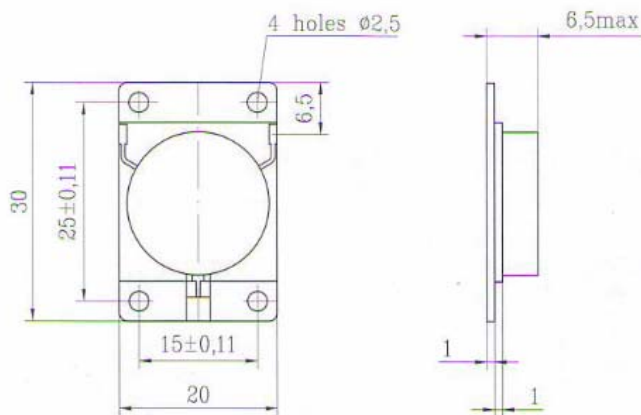
-recommend RADC MS51 series over 6GHz



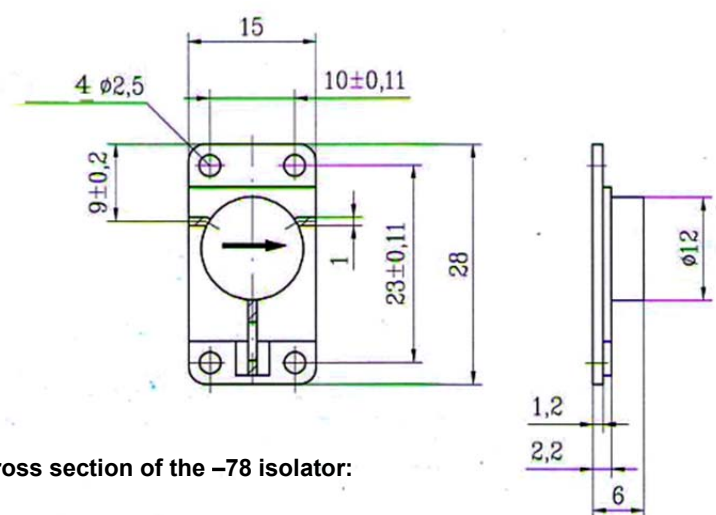
Cross section of the -43 isolator:



Cross section of the -61 isolator:



Cross section of the -80 isolator:



Cross section of the -78 isolator:

We have exhaustively tested the Microstrip Drop in's.

Units passed all shock and vibration test.

The units have low mass and are very robust.

- Vibration in frequency range 1-5000Hz with acceleration 400m/sec² (40g)
- repeated shocks with acceleration 1500m/sec² (150g) and duration 1-5msec
- single shock with acceleration 15000m/sec² (1500g) and duration 0.1-2msec
- linear centrifugal acceleration 5000m/sec²
- acoustic noise 50-10000Hz at sound pressure level up to 170dB
- absence of resonance in frequency range 1-100Hz

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Cross section of the -61 Double Junction Isolator:

