

RDKF Isolators

2 Hole models: Microstrip isolators (6 to 36 GHz)
(For Circulators see RADC MS series over 6GHz)

The RDKF series of isolators is 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: 2 hole models								
Model foot print	Frequency (GHz)	Maximum bandwidth available %	Max. Fwd power (W)	Available loads. Watts	Pad height mm X	Height max Y	Pad width mm	Equiv. to:
-62	3.4-6.7	8	25	25	tba	tba		
-51	6 to 13	10	10	1,6,10 (10W load 3.3mm max)	1.65	5.5	0.43	FDK
-42	9-15	24	20	10,15, 20	1.65	5.5		FDK
-41	9-15	24	15	1, 3,5,10,15	1.65 1.40	5.5	0.45	FDK.
-41	14-17	20	15	1, 3,5,10,15 **	1.50 1.40	5.5	0.356	FDK
-41	17-20	20	15	1, 3,5,10,15	1.65 1.40	5.5 (4.2)	0.35	FDK (<opt).
-40	10-23	24	1,2	0.25, 0.5, 1, 2	1.65	5.5		FDK
-40T	20-23	10	2	1	1.65	5.5		TDK
-39	9-15		5	1	1.65	5.0		Special
-31	17-31	8	6	1	1.50	5.0	0.25	FDK
-21	18-36	8	equen1,	1,2, 6	1.55	5.0	0.17	FDK
-11	32-43	10	5	1, 3	1.14	4.5	0.14	

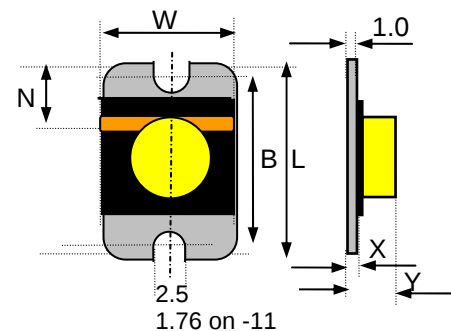
** 20W load can be fitted but will touch the top of the slot, special care with mounting screw

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

Direction of RF:	
R	Default
L	

Units: mm

Model	W	L	B	N
-62	12	23	tba	6
-51	9	19	14	7.5
-42	7	21.5	17.5	7
-41	7	19.5	15.5	6
-40	7	16	12	6
-40T	7.11	16	12	6
-39	7	13.2	12.4	4.5
-33	6.06	12.2		
-31	6	17.5	13.5	6.15
-21	5	16.5	12.5	6.1
-11	3.38	14.0	11.0	4.75



Radius:
-0 opt 0.25 - 0.5 standard (default)
-1 opt 1.0-1.5 (special)

Ordering information: example RDKF-17.7-19.7-41-1WR (Isolator)

Use part # in format as: RDKF-F_L-F_H-Model-Power_{rev} Direction

F_L-Lower frequency-F_H Higher frequency, Model (40/41 etc),
Reverse (load) Power (ie 1Watt) Power direction {R= Clockwise, or left to right
(default) or L= Counter clockwise.}-Option

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

**Tolerance (w*I*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

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Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	% BW	code
-62	3.4-4.2	0.5 0.6	20 18	1.25:1 1.30:1	Full	+25 -10 to +70C, b
-62	3.6-4.2	0.6	20	1.30:1	Full	1W Rev, 10W Fwd, b
-62	4.6-5.5	0.5	18	1.35:1	Full	1W Rev, 2W Fwd, b
-62 (I)	5.4-6.2	0.5 0.6	20 18	1.30:1	Full	room, -30 to +50, b
-62	5.7-6.7	0.5	20	1.30:1	Full	4W Rev, 10W Fwd, b
-51	6.3-6.6	0.5	20	1.22:1	Full	-10 to 70C e 6-23-06
-51	6.3-6.6	0.5	20	1.25:1	Full	B 6-15-06
-51	6.5-8.5	0.5	18	1.30:1	Full	b
-51	6.8-7.05	0.4	20	1.25:1	Full	
-51	6.8-8.2	0.5 0.6	20 18	1.25:1 1.30:1	Full	room -10 to +70C, b
-51	6.9-8.1	0.6	18	1.30:1	Full	B 9-1-05
-51	7.0-9.0	0.5	18	1.30:1	Full	b
-51	7.1-7.9	0.5	20	1.25:1	Full	e12/2/06 screw head dia <4.0
-51	7.1-8.0	0.5	20	1.25:1	Full	
-51	7.2-7.8	0.5	20	1.25:1	Full	p
-51	7.2-8.5	0.6	19	1.25:1	Full	b
-51	7.25-7.75	0.5 0.9	20 16	1.25:1 1.40:1	Full	room -66 to +55C, b
-51	7.4-8.4	0.5	20	1.25:1	Full	-10 to 70C e 6-23-06
-51	7.4-8.4	0.5	18	1.30:1	Full	-b 6-16-06
-51	7.5-9.5	0.5	19	1.30:1	Full	b
-51	7.7-8.5	0.5	20	1.25:1	Full	
-51	7.8-8.2	0.4	20	1.30:1	Full	e 7-14-04
-51	7.9-8.4	0.5	20	1.25:1	Full	
-51	7.9-8.4	0.5	19	1.25:1	Full	10W Rev, 10W Fwd, b
-51	8.0-8.5	0.5	20	1.20:1	Full	
-51	8.0-9.0	0.5	20	1.20:1	Full	P
-51	8.0-9.5	0.5	20	1.25:1	Full	
-51	8.0-10.0	0.5	19	1.30:1	Full	b
-51	8.0-11.0	0.6 0.8	17 16	1.35:1 1.40:1	Full	room -10 to +60, b
-51	8-12	0.6	16	1.4:1	Full	-20 to +80, 2WR/10W Fwd, b
-51	8.1-8.3	0.4	20	1.25:1	Full	
-51	8.15-8.4	0.4	20	1.25:1	Full	
-51	8.2-8.9	0.5	20	1.25:1	Full	0.7/18/1.25 at -40 to 85C tbc p
-51	8.4-10.0	0.5	18	1.25:1	Full	
-51	8.4-10.7	0.6	18	1.30:1	Full	10W, 3.3mm Load, b 10/14/09, p
-51	8.43-9.51	0.5	20	1.25:1	Full	10W, 3.3mm Load , p
-51	8.5-9.6	0.4	20	1.25:1	Full	b
-51	8.5-9.6	0.5	20	1.30:1	Full	-10 to +50, 10W, b
-51	8.5-9.6	0.5	20	1.25:1	Full	E -30 to 65C
-51	8.5-10.5	0.7	18	1.35:1	Full	e

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Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	% BW	code
-51	8.5-10.5	0.8	17	1.40:1	Full	Premium, -54 to +95°C b Special 5W Pk
-51	8.5-10.5	0.6	20	1.30:1	Full	B only
-51	8.5-11.5	0.6	18	1.30:1	Full	0.5/20/1.25 6W load e 3-20-06 11180
-51 (C)	8.5-11.5	0.6	17	1.35:1	Full	-10 to +70, b
-51	8.6-9.3	0.6	18	1.30:1	Full	p
-51	8.6-10.5	0.5 0.8	20 17	1.30:1 1.40:1	Full	room -55 to +95°C
-51	8.7-9.2	0.5	18	1.25:1	Full	
-51	8.7-10.5	0.5	2	1.25:1	Full	@ room temp, (note 7/30/09 0.8/17/1.40 at -54 to +95C,
-51	8.8-9.6	0.5	20	1.25:1	Full	E -30 to 65C
-51	8.9-9.3	0.4	20	1.25:1	Full	
-51	9.0-9.5	0.5	19	1.25:1	Full	
-51	9.0-10.0	0.5	20	1.22:1	Full	b
-51	9.0-11	0.55	16	1.40:1	Full	B
-51	9.1-10.5	0.5	17	1.25:1	Full	B
-51	9.2-9.8	0.45	20	1.22:1	Full	p
-51	9.4-9.8	0.45	20	1.22:1	Full	p
-51	9.5-9.8	0.4	20	1.25:1	Full	B
-51	9.5-10.5	0.4	20	1.25:1	Full	b
-51	9.525-11.525	0.6	16	1.40:1	Full	b, 2WR/ 10W CW Fwd, -20 to +80°C
-51	9.8-10.6	0.4	20	1.25:1	Full	-40 to 70C, p
-51	10.0-10.8	0.6	20	1.30:1	Full	b
-51	10.1-10.7	0.4	20	1.25:1	Full	e
-42	9.0-10.5	0.6	18	1.30:1	Full	20W load e 3-16-06 11180
-42	9.0-15.0	0.4	20	1.25:1	10%	
-42	12.5-12.6	0.4	20	1.25:1	Full	p
-42	13.5-15.0	0.7	18	1.30:1	Full	15/15W e 7-11-05
-42	13.75-14.5	0.6	18	1.25:1	Full	e 2-5-05
-42	13.8-14.7	0.6	18	1.25:1	Full	p
-42	14.0-14.5	0.5	18	1.30:1	Full	-55 to +70C operation, -61 to +85C storage, 20W, b
-42	14.0-15.7	0.5	20	1.30:1	Full	b 7-3-07
-42	14.1-14.4	0.4	20	1.25:1	Full	p
-42	14.35-15.4	0.5	18	1.25:1	Full	
-42	14.4-15.35	0.5	18	1.25:1	Full	
-42	14.4-15.4	0.5	18	1.25:1	Full	
-42	14.4-15.7	0.5	18	1.25:1	Full	
-42	15.0-15.5	0.4	20	1.25:1	Full	e
-41	8.4-10.7	0.5	18	1.30:1	Full	e -30 to +65C
-41	8.5-10.0	0.5	20	1.25:1	Full	b, -10 to +50, 1W
-41	8.9-9.6	0.4	20	1.25:1	Full	b, 3W
-41	9.1-9.3	0.4	20	1.25:1	Full	
-41	9.0-10.0	0.5	20	1.25:1	Full	-40 to +65 °C, b
-41	9.0-10.5	0.6	18	1.30:1	Full	E 12WR max -30 to 70
-41	9.5-9.7	0.5	18	1.25:1	Full	p

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-41	9.5-11.5	0.6	18	1.30:1	Full	p
-41	9.1-10.1	0.5	23	1.25:1	Full	-20 to 70 °C
-41	9.5-10.5	0.5	23	1.25:1	Full	b
-41	9.5-10.5	0.5	18	1.25:1	Full	e
-41	9.8-10.2	0.5	20	1.25:1	Full	p
-41	10.0-10.7	0.5	20	1.25:1	Full	b, -30 to +70
-41	10.0-11.0	0.5	18	1.25:1	Full	
-41	10.0-12.0	0.5	18	1.25:1	Full	4.4 mm ht (b)
-41	10.15-10.65	0.5	18	1.25:1	Full	E -30 to +65°C
-41	10.50-10.55	0.4	20	1.25:1	Full	-10 to +50°C, 1 W CW or 8W CW, b
-41	10.5-12.0	0.5	18	1.25:1	Full	5.5 mm ht (e 2-8-05) b-2-14-05
-41	10.7-11.7	0.5	20	1.25:1	Full	e -40 to 70
-41	10.7-11.7	0.5 0.6	20 18	1.25:1 1.30:1	Full	to be mounted on the heatsink with temperature < +60°C, 15W Rev, 15W Fwd, b // 10W Rev, 10W Fwd, b room -10 to +60,
-41	10.7-12.7	0.5	20	1.25:1	Full	b
-41	10.7-12.75	0.5	20	1.25:1	Full	p
-41	10.7-12.8	0.5	20	1.25:1	Full	p
-41	10.8-11.2	0.4	20	1.25:1	Full	p
-41	10.85-11.15	0.4	20	1.25:1	Full	e/b
-41	11.0-13.0	0.7	18	1.25:1	Full	
-41	11.06-12.06	0.5	20	1.30:1	Full	-30 to +50, b
-41	11.06-12.06	0.5 0.7	20 18	1.30:1 1.35:1	Full	+25C -15 to +55C, b // 0.5W CW
-41	11.3-11.7	0.4	20	1.30:1	Full	e 7-14-04
-41	11.5-12.5	0.5	20	1.25:1	Full	b
-41	11.5-13.8	0.5	20	1.30:1	Full	b
-41	11.6-11.72	0.4	20	1.25:1	Full	b
-41	11.7-12.75	0.5	20	1.30:1	Full	b
-41	11.7-14.5	0.5 0.7	18 16	1.30:1 1.40:1	Full	room -30 to +70, b
-41	12.0-13.7	0.7	18	1.30:1	Full	e -40 to 85
-41	12.0-14.4	0.75	17	1.33:1	Full	p
-41	12.25-12.75	0.3	23	1.20:1	Full	b
-41	12.5-13.0	0.4	20	1.25:1	Full	p
-41	12.5-13.5	0.6	19	1.25:1	Full	e -40 to 85
-41	12.7-13.30	0.5	20	1.25:1	Full	e -40 to 70
-41	12.7-13.25	0.5	20	1.25:1	Full	e -40 to 70
-41	12.7-13.7	0.5	20	1.25:1	Full	
-41	12.7-14.0	0.5	20	1.25:1	Full	
-41	12.7-15.0	0.6	18	1.30:1	Full	
-41	12.85-14.9	0.6	18	1.30:1	Full	p
-41	13.0-15.0	0.6	18	1.30:1	Full	b
-41	13.0-15.0	0.6	18	1.30:1	Full	e -40 to 70

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-41	13.5-14.5	0.6	18	1.25:1	Full	e
-41	13.5-15.0	0.5	20	1.25:1	Full	b
-41	13.5-15.5 (100MHz BW)	0.5	20	1.20:1	Full	p
-41	13.7-14.7	0.6	18	1.25:1	Full	e
-41	13.75-14.5	0.5	20	1.30:1	Full	-40 to +70, 5W, e
-41	13.75-14.50	0.5	20	1.25:1	Full	5W, b
-41	13.75-14.50	0.6	19	1.30:1	Full	2W RFQ 20739
-41	13.75-14.50	0.5	19	1.25:1	Full	-40 to +85, b
-41	13.75-14.75	0.6	18	1.25:1	Full	
-41	13.75-17.30	0.6	18	1.35:1	Full	1W, -10 to +60°C, b
-41	14.0-14.5	0.5	20	1.25:1	Full	e
-41	14.0-14.5	0.7	18	1.30:1	Full	e -40 to 85
-41	14.0-14.5	0.4	20	1.25:1	Full	-40 to +70, 10W, b
-41	14.0-14.5	0.4 0.6	20 17	1.25:1 1.35:1	Full	-55 to +100 (device should be mounted on the heatsink and temperature of the device body will not be higher than 100°C), 10W, b
-41	14.0-14.55	0.8	17	1.30:1	Full	-40 to 85
-41	14.0-15.0	0.6	18	1.30:1	Full	e
-41	14.0-15.0	0.5 0.6	20 18	1.22:1 1.29:1	Full	-10 to +70°C -40 to +85°C, b, 2W Rev, 2W Fwd Solder: gold wire bond Vibration: 10grams in all 3-axes. With duration of 1hr on each axes. Frequency 2 to 2kHz
-41	14.0-15.0	0.5 0.6	20 17	1.25:1 1.35:1	Full	room -40 to +85°C, 4W Rev, 4W Fwd, b
-41	14.0-15.5	0.6	18	1.25:1	Full	0.5/18/1.25:1 (-40to70)e, 0.6/18/1.3 (-40to85)e
-41	14.0-15.5	0.4 0.6	20 18	1.25:1 1.30:1	Full	room -10 to +60C, 10W, b (device should be mounted on the heatsink)
-41	14.0-15.7	0.7	18	1.30:1	Full	e -40 to 85
-41	14.0-16.0	0.8	20	1.30:1	Full	e -40 to 70
-41	14.0-16.0	0.6	18	1.40:1	Full	2WR/ 2W Fwd, b, -40 to +70C
-41	14.0-18.0 (3GHz BW)	0.7	18	1.35:1	Full	2WR/ 2W Fwd, b, -10 to +70C
-41	14.0-18.0	0.8 0.9	17 16	1.35:1 1.40:1	Full	room -10 to +60C, 0.5W, b
-41	14.1-14.4	0.5	20	1.25:1	Full	p
-41	14.2-15.4	0.6	18	1.30:1	full	e -30 to +65
-41	14.2-15.4	0.5	20	1.25:1	Full	b, 10W, -10 to +60C
-41	14.2-15.4	0.4	20	1.25:1	Full	b, 15W, -10 to +50C
-41	14.2-15.7	0.7	18	1.30:1	Full	P
-41	14.4-15.4	0.4	20	1.25:1	Full	b, -10 to +50, device should be mounted on the heatsink
-41	14.4-15.5	0.6	18	1.25:1	Full	e
-41	14.4-15.5	0.7	18	1.30:1	Full	b
-41	14.4-15.7	0.6	18	1.25:1	Full	e
-41	14.5-15.5	0.6	19	1.30:1	Full	b -30 to +70, storage Temp. 130C max, 1W Rev. 10W Fwd
-41	14.5-16.0	0.7	18	1.30:1	Full	p
-41	15.0-17.0	0.7	18	1.30:1	Full	p

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-41	15.0-18.0	0.7	18	1.32:1	Full	From 15.2-18.2
-41	15.0-18.4	0.7 0.8 0.8 0.8	18 17 15 16	1.35:1 1.40:1 1.50:1 1.40:1	Full	+25 -10 to +70C , -b 2WR/ 4W Fwd -55 to 85C -55 to 55C
-41	15.0-15.5	0.4	20	1.25:1	Full	e
-41	15.0-15.5	0.5	20	1.25:1	Full	B -30 to 70
-41	15.15-16.25	0.6 0.7	20 18	1.30:1 1.35:1	Full	+25C -15 to +55C, b // 0.5W CW
-41	15.2-18.2	0.7	18	1.32:1	Full	e 6-16-04
-41	15.2-18.2	0.6	19	1.30:1	Full	b
-41	15.5-17.0	0.5	20	1.30:1	Full	
-41	15.6-16.8	0.6	20	1.30:1	Full	-30 to +60, 5W, b
-41	15.6-17.0	0.6	20	1.25:1	Full	e 7-14-04
-41	15.7-16.2	0.6	18	1.30:1	Full	e 10-7-04
-41	15.7-17.7	0.6	18	1.30:1	Full	
-41	15.7-17.7	0.6	20	1.30:1	Full	-10 to +60, 1W, b
-41	15.8-16.2	0.6	18	1.30:1	Full	p
-41	15.9-16.1	0.5	20	1.30:1	Full	e 6-25-04
-41	16.0-17.0	0.6	18	1.25:1	Full	
-41	16.0-17.3	0.6	18	1.25:1	Full	b 4-2-05
-41	16.2-17.2	0.6	20	1.30:1	Full	-10 to +60C, 1W,b
-41	16-18	0.6	18	1.30:1	Full	-10 to +50, b
-41	16.0-18.0 (100MHz BW)	0.6	20	1.20:1	Full	p
-41	16.5-19.5	0.8 0.9	18 16	1.30:1 1.40:1	Full	room -40 to +70C, b
-41	16.7-17.7	0.7	19	1.25:1	Full	
-41	17.0-18.0	0.7	20	1.25:1	Full	
-41	17.25-18.75	0.7	19	1.25:1	Full	
-41	17.3-18.1	0.5 0.6	18 17	1.30:1 1.35:1	Full	room -30 to +50, 10WR/10W Fwd, b
-41	17.7-19.7	0.7	19	1.25:1	Full	
-41	18.3-19.1	0.7	19	1.25:1	Full	
-40	9.5-11.0	0.6	18	1.30:1	Full	
-40	9.5-11.5	0.7	18	1.30:1	Full	b
-40	9.5-11.6	0.7	17	1.37:1	Full	p
-40 (-5585)	9.5-11.6	0.6 1.0	18 15	1.30:1 1.50:1	Full	room -55 to +85C, b
-40	10.0-12.1	0.7	17	1.37:1	Full	p
-40	10.0-13.0	0.4	20	1.25:1	10%	
-40	10.5-12.6	0.65	18	1.30:1	Full	p
-40	10.5-13.0	0.7	18	1.30:1	Full	--10 to +50, b
-40	10.5-13.5	0.65	18	1.30:1	Full	e 11-20-04
-40	10.6-12.6	0.65	18	1.30:1	Full	p
-40	10.8-11.2	0.4	23	1.25:1	Full	e

RDKF 2-Hole

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RDKF Isolators

2 Hole models: Microstrip isolators (6 to 36 GHz)

(For Circulators see RADC MS series over 6GHz)

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	% BW	code
-40	10.9-12.8	0.5	19	1.30:1	Full	p
-40	11.7-13.2	0.5	19	1.30:1	Full	p
-40	11.7-14.5	0.5	18	1.25:1	Full	b 10-24-07, -30 to 70C
-40	12.25-12.75	0.4	23	1.20:1	Full	b
-40	12.3-13.2	0.6	19	1.25:1	Full	b
-40	12.4-13.15	0.6	19	1.25:1	Full	b
-40	12.5-12.6	0.4	20	1.25:1	Full	p
-40	13.15-13.9	0.6	19	1.25:1	Full	b
-40	13.2-14.0	0.6	19	1.25:1	Full	b
-40	13.5-15.1	0.5	19	1.25:1	Full	e
-40	13.5-15.1	0.4	20	1.25:1	Full	room
-40	13.5-15.5	0.5	18	1.30:1	Full	-30 to +65C, 0.25W, b
-40	13.5-15.5	0.5	18	1.25:1	Full	b 10-24-07, -30 to 70C
-40	13.5-15.5	0.4	20	1.25:1	Full	-30 to +65°C, 0.01W, b
-40	13.75-14.5	0.5	20	1.25:1	Full	-10 to +50, b
-40	13.9-14.65	0.6	19	1.25:1	Full	b
-40	13.9-14.7	0.6	19	1.25:1	Full	b
-40	14.0-14.5	0.4	20	1.25:1	Full	e
-40	14-17	0.7	18	1.35:1	Full	1W Rev/ 2W Fwd, -40 to +85°C, b
-40T	14.2-15.4	0.4	20	1.25:1	Full	e 11-20-04, -30 to 70C
-40T	14.2-15.5	0.5	20	1.25:1	Full	
-40	14.5-15.5	0.5	20	1.25:1	Full	
-40	14.5-16.5	0.5	20	1.25:1	Full	+25
-40	14.5-16.5	0.6	18	1.30:1	Full	-30 to +70C, b
-40	14.5-17.0	0.6	20	1.25:1	Full	1W Rev/ 5W Fwd, b
-40	14.5-17.0	0.7	19	1.35:1	Full	1W Rev/ 2W Fwd, -40 to +85°C, b
-40	14.6-15.5	0.6	19	1.25:1	Full	b
-40	14.65-15.4	0.6	19	1.25:1	Full	b
-40	14.75-15.25	0.5	20	1.25:1	Full	-40 to +70, b
-40	15-18 (2GHz BW max)	0.6	18	1.30:1	2GHz BW max	-10 to +50, b
-40	15.0-18.4	0.7 0.8 0.8 0.8 0.8	18 14 17 15 16	1.30:1 1.35:1 1.40:1 1.50:1 1.40:1	Full	+25 -10 to +55 -10 to +70C , -b 2WR/ 4W Fwd -55 to 85C -55 to 55C
-40 (l)	15.15-16.25	0.5	20	1.30:1	Full	-30 to +50, b
-40	15.85-16.35	0.5	20	1.25:1	Full	e
-40	15.9-16.1	0.5	20	1.25:1	Full	p
-40	16-17	0.5	20	1.20:1	Full	-40 to +85, 2W CW, b N dimension: 4.5mm Vibration: 8 grams all 3 axes
-40	16-18	0.6	20	1.25:1	Full	-30 to +65, 0.01W, b
-40	16.2-17.2	0.6	20	1.30:1	Full	-10 to +60C, 1W, b
-40	16.5-17.8	0.7	19	1.25:1	Full	e
-40	16.5-19.5	0.8	18	1.30:1	Full	room

RDKF Isolators

2 Hole models: Microstrip isolators (6 to 36 GHz)

(For Circulators see RADC MS series over 6GHz)

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	% BW	code
		0.9	16	1.40:1		-40 to +70C, b
-40	16.62-17.71	0.6	20	1.30:1	Full	-10 to +50
-40	16.65-18.65	0.6	18	1.30:1	Full	-30 to +70C, b
-40	16.75-17.25	0.5	20	1.25:1	Full	e
-40	19-23	1.1	18	1.35:1	Full	-10 to +60, b
-39	9.9-10.4	0.5	20	1.25:1	Full	b
-39	12.20-13.00	0.6	19	1.25:1	Full	
-39	12.4-13.15	0.6	19	1.25:1	Full	b
-39	13.00-13.80	0.6	19	1.25:1	Full	
-39	13.15-13.9	0.6	19	1.25:1	Full	b
-39	13.80-14.60	0.6	19	1.25:1	Full	
-39	13.9-14.65	0.6	19	1.25:1	Full	b
-39	14.0-14.5	0.6	20	1.25:1	Full	
-39	14.60-15.40	0.6	19	1.25:1	Full	
-39	14.65-15.4	0.6	19	1.25:1	Full	b
-33 (C)	19.8-20.2	0.8	20	1.25:1	Full	10W, -10 to +50 °C, b
-31	15.5-17.0	0.8	18	1.30:1	Full	
-31	17.0-17.5	0.7	22	1.25:1	Full	
-31	17-22	0.9	17	1.35:1	Full	-10 to +50, b
-31	17.1-18.9	0.8	18	1.30:1		
-31	17.2-17.8	0.7	21	1.25:1	Full	p
-31	17.25-18.75	0.7	19	1.25:1	Full	
-31	17.5-21.5	0.6	18	1.35:1	Full	Spec @ -20 to 70C, magnet position 7.2+/- 0.5mm from the top, diameter 2.9mm, Height needed between magnet and ceiling 0.7mm, Withstand 40G Shock OK, operating temp 0.6/20/1.25:1 @ -0 to 40C BG 8-15-09
-31	17.7-20.7	1.0	18	1.35:1	Full	-10 to +60 °C, 0.5W, b
-31	17.7-21.2	0.9	20	1.30:1	Full	b
-31	17.7-21.2	0.8	17	1.33:1	Full	e
-31	17.850-18.590	0.7	20	1.35:1	Full	1W, b
-31	18.0-24.0	2.5	15	1.42:1	-10 to 50C	sub bands 18.5-18.9- & 23.5-24.1GHz with specs: Insertion Loss <1.1dB / Isolation >20dB (>25dB Target) / Return Loss >20dB RFQ 18926 Development Project, Best effort to meet above specs
-31	18.0-21.2	0.8	17	1.33:1	Full	p
-31	18.1-21.2	0.8	17	1.33:1	Full	p
-31	18.370-19.275	0.7	20	1.35:1	Full	1W, b
-31	18.5-20.5	0.8	19	1.35:1	Full	p
-31	19.35-19.95	0.8	20	1.35:1	Full	
-31	19.5-19.8	0.8	20	1.25:1	Full	e
-31	19.5-20.5	0.8	20	1.25:1	Full	e
-31	19.5-22.5	1.0	20	1.35:1	Full	-10 to +70, b
-31	19.6-21.6	0.8	18	1.35:1	Full	e 2-14-05
-31	19.6-21.6	0.8	18	1.35:1	Full	

RDKF 2-Hole

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RDKF Isolators

2 Hole models: Microstrip isolators (6 to 36 GHz)
(For Circulators see RADC MS series over 6GHz)

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	% BW	code
-31	19.6-21.6	0.8 0.8	20 18	1.30:1 1.35:1	Full	+25 -30 to +70 °C, 2W/ 5W, b
-31	19.7-20.2	0.8	20	1.30:1	Full	-10 to +60 °C, 0.8W, b
-31	19.7-20.3	0.8	20	1.30:1	Full	
-31	19.8-20.2	0.8	20	1.30:1	Full	p
-31	19.8-21.7	0.7	18	1.30:1	Full	-30 to +70C, b
-31	20.0-22.0	1.0	18	1.30:1	Full	p (spec tbc)
-31	20.2-21.2	0.9	20	1.30:1	Full	
-31	20.6-21.2	0.9	20	1.35:1	Full	
-31	20.75-21.05	0.9	20	1.35:1	Full	e
-31	20.2-21.2	1.0	18	1.30:1	Full	p
-31	21.2-23.6	1.0	18	1.30:1	Full	e
-31	22.0-27.0	1.1 1.2	18 17	1.35:1 1.40:1		Room -40 to +70°C
-31	22.7-24.3	1.0	18	1.30:1		p
-31	23-25	1.2	17	1.33:1	Full	p
-31	23.5-24.5	1.0	20	1.30:1	Full	b, 5W Rev, 5W Fwd
-31	24.0-24.5	0.9	20	1.30:1	Full	std -40 to +70 °C, b
-31 -40 to 100	24.0-24.5	0.9	20	1.30:1	Full	-40 to +100 °C, b
-31	24.5-26.5	1.2	17	1.33:1	Full	b
-31	25-27	0.9 1.0	20 20	1.30:1 1.35:1	Full	room -40 to +70C, 1W rev/6W Fwd, b 11/21/09
-31	25-27	1.0	20	1.30:1	Full	-30 to +60°C, 6WR/ 6W Fwd max, to be mounted on a heatsink
-31	25-27	1.1	20	1.30:1	Full	-30 to +60°C, 10WR/ 10W Fwd max, to be mounted on a heatsink
-31	25-27	0.9	20	1.30:1	Full	-30 to +70 °C, 2W, b
-31	25.0-27.75	1.0	>19	1.30:1	Full	-30 to +70, 1WRev, 1W Fwd, b
-31	28.35-28.95	0.9	20	1.35:1	Full	e
-31	28.5-28.8	0.9	20	1.35:1	Full	e
31	29-31	1.0	20	1.30:1	Full	5W, -30 to +60C, b (to be mounted on the heatsink)
-31	29.5-30.0	0.9	20	1.35:1	Full	
-31	29.5-31.0	0.9	19	1.35:1	Full	e, 6W Rev/ 6W Fwd, -30 to +65 °C, Pad Height (=X) 1.37mm
-31	29.5-31.0	1.0	20	1.30:1	Full	b, 6W Rev, -10 to +60°C
-31	29.6-30.2	0.9	20	1.35:1	Full	
-31	29.75-30.05	0.9	20	1.35:1	Full	e
-31	30.0-31.0	1.0	20	1.35:1	Full	-40 to +60 °C, b (Note: 0.8dB @ room, 0.9dB @ -40 to +60 °C, 1.0dB @ -40 to +85 °C) Storage Temp. -40 to +85 °C
-21	17.7-19.7	0.8	17	1.33:1	Full	b
-21	20.05-21.08	0.8	20	1.30:1	Full	-10 to +60, b
-21	20.2-21.2	0.8	18	1.30:1	Full	p
-21	21.2-23.6	0.8	18	1.30:1	Full	
-21	22.5-23.15	0.8	18	1.30:1	Full	p

RDKF 2-Hole

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RDKF Isolators

2 Hole models: Microstrip isolators (6 to 36 GHz)
(For Circulators see RADC MS series over 6GHz)

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	% BW	code
-21	22.6-23.6	<0.8	>20	1.30:1	Full	-30 to +60, 0.2W Rev, 1W Fwd, b
-21	22.8-25.2	0.8	18	1.30:1	Full	p
-21	23.0-25.0	0.8	18	1.30:1	Full	p
-21	23.2-24.8	0.8	18	1.30:1	Full	p
-21	24.0-27.0	1.0	17	1.4:1	10%	
-21	24.0-24.5	0.9	20	1.30:1	Full	std -40 to +70 °C, b
-21 -40to100	24.0-24.5	1.1	18	1.40:1	Full	-40 to +100 °C, b
-21	24.5-26.5	0.9 1.0	20 19	1.30:1 1.35:1	Full	+25 -40 to +70C, b
-21	24.5-26.5	0.9 1.0	20 19	1.30:1 1.30:1	Full	+25 -10 to +60°C, 5W Rev/ 5W Fwd, b (Note: to be mounted on the heatsink)
-21	25.2-27.2	0.8	18	1.30:1	Full	1W, e
-21	25.2-27.2	0.9 1.0	20 18	1.30:1 1.35:1	Full	+25 -30 to +70 °C, 2W, b
-21	25.25-27.50	0.9	20	1.30:1	Full	b
-21	25.4-26.5	0.8 0.9	23 20	1.30:1 1.30:1	Full	+25 -40 to +70C, b
-21	25.4-26.5	0.8	20	1.30:1	Full	-10 to +50C, 6W, b
-21	25.5-27.5	0.8	18	1.30:1	Full	p
-21	26.0-27.0	0.8	17	1.30:1	Full	
-21	26-31	1.2	17	1.35:1	Full	e 2-14-05
-21	27-29	1.0	20	1.35:1	Full	-10 to +60, b, ud 6/24/15
-21	27-30	1.0	20	1.30:1	Full	-10 to +60, b
-21	27-30	0.9	19	1.35:1	Full	-30 to 70C 4wRev /4W Fwd e 11-29-07
-21	27-30	1.1	18	1.35:1	Full	--30 to 70C 10 wRev /10W Fwd e 11-29-07
-21	27-32	1.1 1.2	18 17	1.35:1 1.40:1	Full	-30 to +60° C, b
-21	27.3-31.0	1.0	18	1.35:1	Full	-10 to +60°C, b
-21 (-4085)	27.3-31.0	1.0 1.2	18 16	1.35:1 1.40:1	Full	+15 to +35°C -40 to +85°C, b
-21	27.5-28.1	0.9	20	1.30:1	Full	-40 to 70C , 1W rev/ 2W fwd e 11-30-07
-21	27.5-28.5	1.0	17	1.33:1	Full	
-21	27.5-31.0	1.1	18	1.30:1	Full	p
-21	28-30	1.1	20	1.30:1	Full	p
-21	29.0-30.0	1.0	18	1.30:1	Full	p
-21	29.0-31.0	1.1	20	1.35:1	Full	Standard part 1W max (magnet dia 1.38mm) {2W part available with special ferrites at a premium}
-21	29.0-31.0	0.9 1.0	20 19	1.30:1 1.30:1	Full	+25 -10 to +60°C, 4W Rev/ 4W Fwd, b (Note: to be mounted on the heatsink)
-21	29.7-30.8	1.0 1.1	20	1.25:1 1.30:1	Full	room -30 to+70° C, b
-21	30.0-31.0	0.9	20	1.30:1	Full	-10 to +60°C, b
-21	30.0-31.0	1.0	20	1.30:1	Full	-30 to +70° C, b

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RDKF Isolators

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(For Circulators see RADC MS series over 6GHz)

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR	% BW	code
-21 (-4085)	30.0-31.0	0.9 1.0	20 18	1.30:1 1.35:1	Full	+15 to +35°C -40 to +85°C, b
-21	30.0-32.0	0.7	18	1.30:1	Full	b -30 to +70, 1W
-21	30.0-32.0	0.9	19	1.30:1	Full	b -10 to +70, 3W
-21	30.0-32.0	0.9	19	1.35:1	Full	-30 to 70C 4wRev /4W Fwd e 11-29-07
-21	30.0-32.0	1.1	18	1.30:1	Full	-30 to +60C, 6W Rev/ 6W Fwd -b, 6/30/11 to be mounted on the heatsink
-21	30.0-32.0	1.1	18	1.35:1	Full	-40 to +70, 10WR/ 10W Fwd, e, 07/06/11
-21	30.2-30.9	0.8	20	1.35:1	Full	e 7-14-04
-21	31-33	1.1	20	1.30:1	Full	p
-21	31.0-34.0	1.0 1.1	20 18	1.35:1 1.40:1	Full	+25 -30 to +70 °C, 2W, b
-21	31.5-32.5	1.1	20	1.30:1	Full	p
-21	32-33	<0.9	>20	1.30:1	Full	-30 to +60, 0.2W Rev, 1W Fwd, b
-21	32-38	1.2 1.3	17 16	1.35:1 1.40:1	Full	room -10 to +60C, 0.5W, b
-21	33.0-35.0	0.9 0.9 1.1	23 21 19	1.30:1 1.30:1 1.35:1	+25 -10to50 -40to70	b 7/15/10
-21	33.0-36.0	1.0 1.1	20 18	1.30:1 1.35:1	Full	room -30 to +60° C, b
-21	33-36	1.1	20	1.35	Full	-10 to +60° C, 0.5W, b
-21	33-36 (-4585)	1.2	18	1.40:1	Full	-45 to +85° C, 0.5W, b
-21	33.4-34.0	1.1	20	1.30:1	Full	p
-21	33.5-36.5	1.1	20	1.30:1	Full	p
-21	33.5-36.5	1.0	19	1.35:1	Full	@ -40 to +75 , e 06-30-07
-21	34.0-36.0	1.0	20	1.35:1	Full	@ -40 to +75°C , 1W Rev/ 2W Fwd, e
-21	34-36	1.0	20	1.30:1	Full	-10 to +60°C, -b
-21	34.35-34.65	0.7 0.9	23 18	1.20:1 1.35:1	Full	room -30 to +50, b
-21	35.0-36.0	1.0	20	1.30:1	Full	-10 to +70, b
-21	35.0-37.0	1.0	20	1.30:1	Full	p
-21	36.6-38.4	1.0	20	1.35:1	Full	-30 to +70, b
-21	37.5-39.5	1.0	20	1.30:1	Full	p
-11	>32GHz	Only				
-11	32.8-34.8	1.0	20	1.30:1	Full	b, 3WR/3W Fwd
-11	34-36	1.0	20	1.30:1	Ful	-10 to +60°C, b
-11	34.4-34.5	1.0 1.1	20 19	1.30:1 1.35:1	Full	room -10 to +60, b
-11	34.5-35.5	1.0	20	1.30:1		b/e 9-7-07
-11	35-38	0.9	20	1.35:1	Full	b
-11	36.6-38.4	1.0	20	1.35:1	Full	-30 to +70, b
-11	37-40	1.1	20	1.35:1	Full	b
-11	38-42	1.3	20	1.35:1	Full	b
-11	40-43	1.3	20	1.35:1	Full	b

RDKF 2-Hole

Specifications may be subject to change

07/09/15

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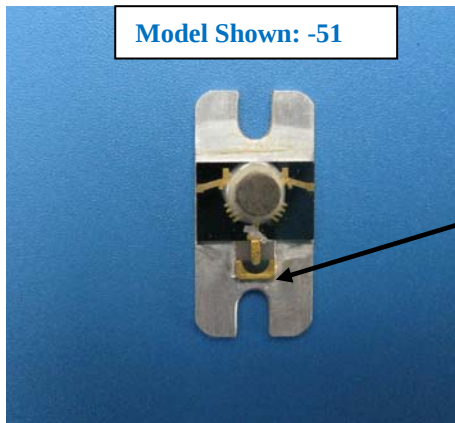
WEB: www.raditek.com

E-mail: sales@raditek.com

RDKF Isolators

2 Hole models: Microstrip isolators (6 to 36 GHz)
(For Circulators see RADC MS series over 6GHz)

Model Shown: -51



Load must be clear of
slot to avoid conflict
with screw head

Model Shown: -33 (Isolator)

