

RADITEK, INC.



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

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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:
-51	6 to 13	10	10	1,6,10 <small>(10W load 3.3mm max)</small>	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	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	3.8		FDK
-21	18-36	8	5	1,2	1.55	5.0	0.17	FDK
-11	32-36	10	5	1	1.14	4.5	0.14	

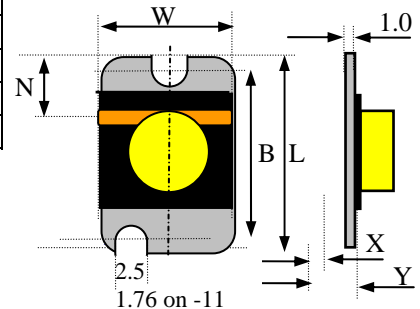
Units: mm

Model	W	L	B	N
-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
-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

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

Operating Temp.	-40°C +70°C
Storage Temp.	-40°C +130°C

Direction of RF:	
R	
L	



Radius:

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

Tolerance (w*h) +/- 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 90 °C, add 0.3 dB to Insertion Loss, and subtract 4.0 dB from Isolation
- At 100 °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-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

Model foot print	Freq.GHz	Insert Loss dB	Isol. dB	VSWR :1	%B W	code
-51	6.3-6.6	0.5	20	1.22	Full	-10 to 70C e 6-23-06
-51	6.3-6.6	0.5	20	1.25	Full	B 6-15-06
-51	6.5-8.5	0.5	18	1.30	Full	b
-51	6.8-7.05	0.4	20	1.25	Full	
-51	6.8-8.2	0.5	18	1.25	Full	
-51	6.9-8.1	0.6	18	1.3	Full	B 9-1-05

RDKF 2-Hole

Specifications may be subject to change

01/27/11

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, CA 95125, U.S.A.

Telephone: (408) 266-7404 FAX: (408) 266-4483

WEB: www.raditek.com, E-mail: sales@raditek.com

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

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR :1	% BW	code
-51	7.0-9.0	0.5	18	1.30	Full	b
-51	7.1-7.9	0.5	20	1.25	Full	e12/2/06 screw head dia <4.0
-51	7.1-8.0	0.5	20	1.25	Full	
-51	7.2-7.8	0.5	20	1.25	Full	p
-51	7.2-8.5	0.6	19	1.25	Full	b
-51	7.25-7.75	0.5 0.9	20 16	1.25 1.40	Full	room -66 to +55C, b
-51	7.4-8.4	0.5	20	1.25	Full	-10 to 70C e 6-23-06
-51	7.4-8.4	0.5	18	1.3	Full	-b 6-16-06
-51	7.5-9.5	0.4	20	1.25	Full	b
-51	7.7-8.5	0.5	20	1.25	Full	
-51	7.8-8.2	0.4	20	1.3	Full	e 7-14-04
-51	7.9-8.4	0.5	20	1.20	Full	
-51	8.0-8.5	0.5	20	1.20	Full	
-51	8.0-9.0	0.5	20	1.20	Full	P
-51	8.0-9.5	0.5	20	1.25	Full	
-51	8.0-10.0	0.5	18	1.25	Full	
-51	8.0-11.0	0.6 0.8	17 16	1.35 1.4	Full	room -10 to +60, b
-51	8.1-8.3	0.4	20	1.25	Full	
-51	8.15-8.4	0.4	20	1.25	Full	
-51	8.2-8.9	0.5	20	1.25	Full	0.7/18/1.25 at -40 to 85C tbc p
-51	8.4-10.0	0.5	18	1.25	Full	
-51	8.4-10.7	0.6	18	1.3	Full	10W, 3.3mm Load, b 10/14/09, p
-51	8.43-9.51	0.5	20	1.25	Full	10W, 3.3mm Load , p
-51	8.5-9.6	0.5	20	1.25	Full	
-51	8.5-9.6	0.5	20	1.25	Full	E -30 to 65C
-51	8.5-10.5	0.7	18	1.35	Full	e
-51	8.5-10.5	0.8	17	1.40	Full	Premium, -54 to +95°C b Special 5W Pk
-51	8.5-10.5	0.6	20	1.3	Full	B only
-51	8.5-11.5	0.6	18	1.3	Full	0.5/20/1.25 6W load e 3-20-06 11180

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR :1	% BW	code
-51	8.6-9.3	0.6	18	1.30	Full	p
-51	8.6-10.5	0.5 0.8	20 17	1.3 1.4	Full	room -55 to +95°C
-51	8.7-9.2	0.5	18	1.25	Full	
-51	8.7-10.5	0.5	2	1.25	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	Full	E -30 to 65C
-51	8.9-9.3	0.4	20	1.25	Full	
-51	9.0-9.5	0.5	19	1.25	Full	
-51	9.0-10.0	0.5	20	1.22	Full	b
-51	9.0-11	0.55	16	1.40	Full	B
-51	9.1-10.5	0.5	17	1.25	Full	B
-51	9.2-9.8	0.45	20	1.22	Full	p
-51	9.5-9.8	0.4	20	1.25	Full	B
-51	9.5-10.5	0.4	20	1.25	Full	b
-51	9.8-10.6	0.4	20	1.25	Full	-40 TO 70c P
-51	10.0-10.8	0.4	20	1.25	Full	e
-51	10.1-10.7	0.4	20	1.25	Full	e
-42	9.0-10.5	0.6	18	1.3	Full	20W load e 3-16-06 11180
-42	9.0-15.0	0.4	20	1.25	10%	
-42	12.5-12.6	0.4	20	1.25	Full	p
-42	13.5-15.0	0.7	18	1.3	Full	15/15W e 7-11-05
-42	13.75-14.5	0.6	18	1.25	Full	e 2-5-05
-42	13.8-14.7	0.6	18	1.25	Full	p
-42	14.0-14.5	0.4	20	1.25	Full	
-42	14.0-15.7	0.5	20	1.30	Full	b 7-3-07
-42	14.1-14.4	0.4	20	1.25	Full	p
-42	14.35-15.4	0.5	18	1.25	Full	
-42	14.4-15.35	0.5	18	1.25	Full	
-42	14.4-15.4	0.5	18	1.25	Full	
-42	14.4-15.7	0.5	18	1.25	Full	
-42	15.0-15.5	0.4	20	1.25	Full	e
-41	8.4-10.7	0.5	18	1.30	Full	e -30 to +65C
-41	9.1-9.3	0.4	20	1.25	Full	
-41	9.0-10.0	0.5	23	1.25	Full	-20 to 70 °C
-41	9.0-10.5	0.6	18	1.30	Full	E 12WR max -30 to 70
-41	9.5-9.7	0.5	18	1.25	Full	p
-41	9.5-11.5	0.6	18	1.3	Full	p
-41	9.1-10.1	0.5	23	1.25	Full	-20 to 70 °C
-41	9.5-10.5	0.5	23	1.25	Full	b

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WEB: www.raditek.com, E-mail: sales@raditek.com

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR :1	% BW	code
-41	9.5-10.5	0.5	18	1.25	Full	e
-41	9.8-10.2	0.5	20	1.25	Full	p
-41	10-10.7	0.5	20	1.25	Full	b-30to70
-41	10.0-11.0	0.5	18	1.25	Full	
-41	10.0-12.0	0.5	18	1.25	Full	4.4 mm ht (b)
-41	10.15-10.65	0.5	18	1.25	Full	E -30 to+65°C
-41	10.5-12.0	0.5	18	1.25	Full	5.5 mm ht (e 2-8-05) b-2-14-05
-41	10.7-11.7	0.5	20	1.25	Full	e -40 to 70
-41	10.7-12.7	0.5	20	1.25	Full	b
-41	10.8-11.2	0.4	20	1.25	Full	p
-41	10.85-11.15	0.4	20	1.25	Full	e/b
-41	11.0-13.0	0.7	18	1.25	Full	
-41	11.3-11.7	0.4	20	1.3	Full	e 7-14-04
-41	11.5-12.5	0.5	20	1.25	Full	b
-41	11.5-13.8	0.5	20	1.30	Full	b
-41	11.6-11.72	0.4	20	1.25	Full	b
-41	11.7-12.75	0.5	20	1.30	Full	b
-41	11.7-14.5	0.5 0.7	18 16	1.3 1.4	Full	room -30 to +70, b
-41	12.0-13.7	0.7	18	1.3	Full	e -40 to 85
-41	12.0-14.4	0.75	17	1.33	Full	p
-41	12.25-12.75	0.3	23	1.2	Full	b
-41	12.5-13.0	0.4	20	1.25	Full	p
-41	12.5-13.5	0.6	19	1.25	Full	e -40 to 85
-41	12.7-13.30	0.5	20	1.25	Full	e -40 to 70
-41	12.7-13.25	0.5	20	1.25	Full	e -40 to 70
-41	12.7-13.7	0.5	20	1.25	Full	
-41	12.7-14.0	0.5	20	1.25	Full	
-41	12.7-15.0	0.6	18	1.3	Full	
-41	13.0-15.0	0.6	18	1.3	Full	b
-41	13.0-15.0	0.6	18	1.3	Full	e -40 to 70
-41	13.5-14.5	0.6	18	1.25	Full	e
-41	13.5-15.0	0.5	20	1.25	Full	b
-41	13.7-14.7	0.6	18	1.25	Full	e
-41	13.75-14.5	0.6	19	1.30	Full	e
-41	13.75-14.75	0.6	18	1.25	Full	
-41	14.0-14.5	0.5	20	1.25	Full	e
-41	14.0-14.5	0.7	18	1.3	Full	e -40 to 85
-41	14.0-14.55	0.8	17	1.3	Full	-40 to 85

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR :1	% BW	code
-41	14.0-15.0	0.6	18	1.3	Full	e
-41	14.0-15.5	0.6	18	1.25	Full	0.5/18/1.25 (-40to70)e, 0.6/18/1.3 (-40to85)e
-41	14.0-15.7	0.7	18	1.3	Full	e -40 to 85
-41	14.1-14.4	0.5	20	1.25	Full	p
-41	14.2-15.4	0.6	18	1.3	full	e -30 to +65
-41	14.2-15.7	0.7	18	1.3	Full	P
-41	14.0-16.0	0.8	20	1.3	Full	e -40 to 70
-41	14.4-15.5	0.6	18	1.25	Full	e
-41	14.4-15.5	0.7	18	1.3	Full	b
-41	14.4-15.7	0.6	18	1.25	Full	e
-41	14.5-15.5	0.6	19	1.3	Full	b -30 to +70, storage Temp. 130C max, 1W Rev. 10W Fwd
-41	14.5-16.0	0.7	18	1.3	Full	p
-41	15.0-17.0	0.7	18	1.3	Full	p
-41	15.0-18.0	0.7	18	1.32	Full	From 15.2-18.2
		0.7	18	1.35		+25
		0.8	17	1.40		-10 to +70C , -b 2WR/ 4W Fwd
		0.8	15	1.50		-55 to 85C
-41	15.0-18.4	0.8	16	1.40	Full	-55 to 55C
-41	15.0-15.5	0.4	20	1.25	Full	e
-41	15.0-15.5	0.5	20	1.25	Full	B -30 to 70
-41	15.2-18.2	0.7	18	1.32	Full	e 6-16-04
-41	15.5-17.0	0.5	20	1.3	Full	
-41	15.6-17.0	0.6	20	1.25	Full	e 7-14-04
-41	15.7-16.2	0.6	18	1.3	Full	e 10-7-04
-41	15.7-17.7	0.6	18	1.3	Full	
-41	15.8-16.2	0.6	18	1.3	Full	p
-41	15.9-16.1	0.5	20	1.3	Full	e 6-25-04
-41	16.0-17.0	0.6	18	1.25	Full	
-41	16.0-17.3	0.6	18	1.25	Full	b 4-2-05
-41	16.0-18.0	0.6	18	1.3	Full	b 4-2-05
-41	16.5-19.5	0.8 0.9	18 16	1.3 1.4	Full	room -40 to +70C, b
-41	16.7-17.7	0.7	19	1.25	Full	
-41	17.0-18.0	0.7	20	1.25	Full	
-41	17.25-18.75	0.7	19	1.25	Full	
-41	17.7-19.7	0.7	19	1.25	Full	
-41	18.3-19.1	0.7	19	1.25	Full	
-40	9.5-11.0	0.6	18	1.3	Full	

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR :1	% BW	code
-40	9.5-11.5	0.7	18	1.3	Full	p
-40	9.5-11.6	0.7	17	1.37	Full	p
-40 (-5585)	9.5-11.6	0.6 1.0	18 15	1.3 1.5	Full	room -55 to +85C, b
-40	10.0-12.1	0.7	17	1.37	Full	p
-40	10.0-13.0	0.4	20	1.25	10%	
-40	10.5-13.0	0.7	18	1.3	Full	b 11-21-06
-40	10.5-13.5	0.65	18	1.3	Full	e 11-20-04
-40	10.6-12.6	0.65	18	1.3	Full	p
-40	10.8-11.2	0.4	23	1.25	Full	e
-40	10.9-12.8	0.5	19	1.3	Full	p
-40	11.7-13.2	0.5	19	1.3	Full	p
-40	11.7-14.5	0.5	18	1.25	Full	b 10-24-07, -30 to 70C
-40	12.25-12.75	0.3	23	1.2	Full	b
-40	12.3-13.2	0.6	19	1.25	Full	b
-40	12.4-13.15	0.6	19	1.25	Full	b
-40	12.5-12.6	0.4	20	1.25	Full	p
-40	13.15-13.9	0.6	19	1.25	Full	b
-40	13.2-14.0	0.6	19	1.25	Full	b
-40	13.5-15.1	0.5	19	1.25	Full	
-40	13.5-15.5	0.5	18	1.25	Full	b 10-24-07, -30 to 70C
-40	13.75-14.5	0.6	19	1.25	Full	
-40	13.9-14.65	0.6	19	1.25	Full	b
-40	13.9-14.7	0.6	19	1.25	Full	b
-40	14.0-14.5	0.4	20	1.25	Full	e
-40T	14.2-15.4	0.4	20	1.25	Full	e 11-20-04, -30 to 70C
-40T	14.2-15.5	0.5	20	1.25	Full	
-40	14.5-15.5	0.5	20	1.25	Full	
-40	14.5-17.0	0.6	20	1.25	Full	1W Rev/ 5W Fwd, b
-40	14.6-15.5	0.6	19	1.25	Full	b
-40	14.65-15.4	0.6	19	1.25	Full	b
-40	15.0-18.4	0.7 0.8 0.8 0.8 0.8	18 14 17 15 16	1.30 1.35 1.40 1.50 1.40	Full	+25 -10 to +55 -10 to +70C, -b 2WR/ 4W Fwd -55 to 85C -55 to 55C
-40	15.85-16.35	0.5	20	1.25	Full	e
-40	15.9-16.1	0.5	20	1.25	Full	p
-40	16.5-17.8	0.7	19	1.25	Full	e

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR :1	% BW	code
-40	16.5-19.5	0.8 0.9	18 16	1.3 1.4	Full	room -40 to +70C, b
-40	16.62-17.71	0.65	19	1.3	Full	p
-40	16.75-17.25	0.5	20	1.25	Full	e
-39	9.9-10.4	0.5	20	1.25	Full	b
-39	12.20-13.00	0.6	19	1.25	Full	
-39	12.4-13.15	0.6	19	1.25	Full	b
-39	13.00-13.80	0.6	19	1.25	Full	
-39	13.15-13.9	0.6	19	1.25	Full	b
-39	13.80-14.60	0.6	19	1.25	Full	
-39	13.9-14.65	0.6	19	1.25	Full	b
-39	14.0-14.5	0.6	20	1.25	Full	
-39	14.60-15.40	0.6	19	1.25	Full	
-39	14.65-15.4	0.6	19	1.25	Full	b
-31	15.5-17.0	0.8	18	1.3	Full	
-31	17.0-17.5	0.7	22	1.25	Full	
-31	17.1-18.9	0.8	18	1.3		
-31	17.2-17.8	0.7	21	1.25	Full	p
-31	17.25-18.75	0.7	19	1.25	Full	
-31	17.5-21.5	0.6	18	1.35	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 @ -0 to 40C BG 8-15-09
-31	17.7-21.2	0.5	20	1.25	Full	@-40 to +85
-31	17.7-21.2	0.8	17	1.33	Full	e
-31	18.0-24.0	2.5	15	1.42	-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	Full	p
-31	18.1-21.2	0.8	17	1.33	Full	p
-31	18.5-20.5	0.8	19	1.35	Full	p
-31	19.35-19.95	0.8	20	1.35	Full	
-31	19.5-19.8	0.8	20	1.25	Full	e
-31	19.5-20.5	0.8	20	1.25	Full	e
-31	19.6-21.6	0.8	18	1.35	Full	e 2-14-05
-31	19.7-20.3	0.8	20	1.3	Full	
-31	19.8-20.2	0.8	20	1.3	Full	p
-31	20.2-21.2	0.9	20	1.3	Full	
-31	20.6-21.2	0.9	20	1.35	Full	
-31	20.75-21.05	0.9	20	1.35	Full	e
-31	20.0-22.0	1.0	18	1.30	Full	p (spec tbc)
-31	21.2-23.6	1.0	18	1.30	Full	e

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR :1	% BW	code
-31	22.0-27.0	1.1 1.2	18 17	1.35 1.40		Room -40 to +70°C -b
-31	22.7-24.3	1.0	18	1.30		p
-31	23-25	1.2	17	1.33	Full	p
-31	23.5-24.5	1.0	18	1.30	Full	p
-31	24.0-24.5	0.9	20	1.30	Full	std -40 to +70 °C, b
-31 -40to100	24.0-24.5	0.9	20	1.30	Full	-40 to +100 °C, b
-31	24.5-26.5	1.2	17	1.33	Full	b
-31	25-27	0.9 1.0	20 20	1.30 1.35	Full	room -40 to +70C, 1W rev/6W Fwd, b 11/21/09
-31	28.35-28.95	0.9	20	1.35	Full	e
-31	28.5-28.8	0.9	20	1.35	Full	e
-31	29.5-30.0	0.9	20	1.35	Full	
-31	29.6-30.2	0.9	20	1.35	Full	
-31	29.75-30.05	0.9	20	1.35	Full	e
-21	17.7-19.7	0.8	17	1.33	Full	b
-21	20.2-21.2	0.8	18	1.3	Full	p
-21	21.2-23.6	0.8	18	1.3	Full	
-21	22.5-23.15	0.8	18	1.3	Full	p
-21	22.8-25.2	0.8	18	1.3	Full	p
-21	23.0-25.0	0.8	18	1.3	Full	p
-21	23.2-24.8	0.8	18	1.3	Full	p
-21	24.0-27.0	1.0	17	1.4	10%	
-21	24.0-24.5	0.9	20	1.30	Full	std -40 to +70 °C, b
-21 -40to100	24.0-24.5	1.1	18	1.40	Full	-40 to +100 °C, b
-21	24.5-26.5	0.8 0.9	20 19	1.3 1.35	Full	+25 -40 to +70C, b
-21	24.5-26.5	0.9 1.0	20 19	1.3 1.3	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	1.3	Full	p
-21	25.25-27.50	0.9	20	1.3	Full	b
-21	25.4-26.5	0.8 0.9	23 20	1.3 1.3	Full	+25 -40 to +70C, b
-21	25.5-27.5	0.8	18	1.3	Full	p
-21	26.0-27.0	0.8	17	1.3	Full	
-21	26.0-31.0	1.2	17	1.35	Full	e 2-14-05
-21	27.0-30.0	0.9	19	1.35	Full	-30 to 70C 4wRev /4W Fwd e 11-29-07
-21	27.0-30.0	1.1	18	1.35	Full	--30 to 70C 10 wRev /10W Fwd e 11-29-07
-21	27.0-32.0	1.3	18	1.35	Full	-40 to 80C 2WRev/ /4 or 10W Fwd-b 11-29-07

Model foot print	Freq. GHz	Insert Loss dB	Isol. dB	VSWR :1	% BW	code
-21	27.5-28.1	0.9	20	1.30	Full	--40 to 70C , 1W rev/ 2W fwd e 11-30-07
-21	27.5-28.5	1.0	17	1.33	Full	
-21	27.5-31.0	1.1	18	1.3	Full	p
-21	28-30	1.1	20	1.3	Full	p
-21	29.0-30.0	1.0	18	1.3	Full	p
-21	29.0-31.0	1.1	20	1.3	Full	Standard part 1W max (magnet dia 1.38mm) {2W part available with special ferites at a premium}
-21	29.0-31.0	0.9 1.0	20 19	1.3 1.3	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 1.30	Full	room -30 to+70° C, b
-21	30.0-32.0	0.9	19	1.3	Full	b -10 to +70, 3W
-21	30.0-32.0	0.9	19	1.35	Full	-30 to 70C 4wRev /4W Fwd e 11-29-07
-21	30.0-32.0	1.1	18	1.35	Full	--30 to 70C 10 wRev /10W Fwd e 11-29-07
-21	30.2-30.9	0.8	20	1.35	Full	e 7-14-04
-21	31-33	1.1	20	1.3	Full	p
-21	31.0-34.0	1.1	20	1.3	Full	b
-21	31.5-32.5				Full	p
-21	33.0-35.0	0.9 0.9 1.1	23 21 19	1.30 1.30 1.35	+25 -10to50 -40to70	b 7/15/10
-21	33.0-36.0	1.0 1.1	20 18	1.30 1.35	Full	room -30 to +60° C, b
-21	33.4-34.0				Full	p
-21	33.5-36.5	1.1	20	1.3	Full	p
-21	33.5-36.5	1.0	19	1.35	Full	@ -40 to +75 , e 06-30-07
-21	34.0-36.0	1.0	20	1.35	Full	@ -40 to +75°C , 1W Rev/ 2W Fwd, e
-21	34.0-36.0	1.0	20	1.30	Full	b
-21	34.35-34.65	0.7 0.9	23 18	1.20 1.35	Full	room -30 to +50, b
-21	35.0-37.0	1.0	20	1.3	Full	p
-21	37.5-39.5	1.0	20	1.3	Full	p
-11	>32GHz	Only				
-11	34.4-34.5	0.7 0.8	20 19	1.30 1.35	Full	room -10 to +60, b
-11	34.5-35.5	1.0	20	1.3		b/e 9-7-07

Model Shown: -51

