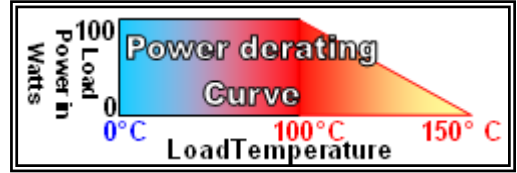
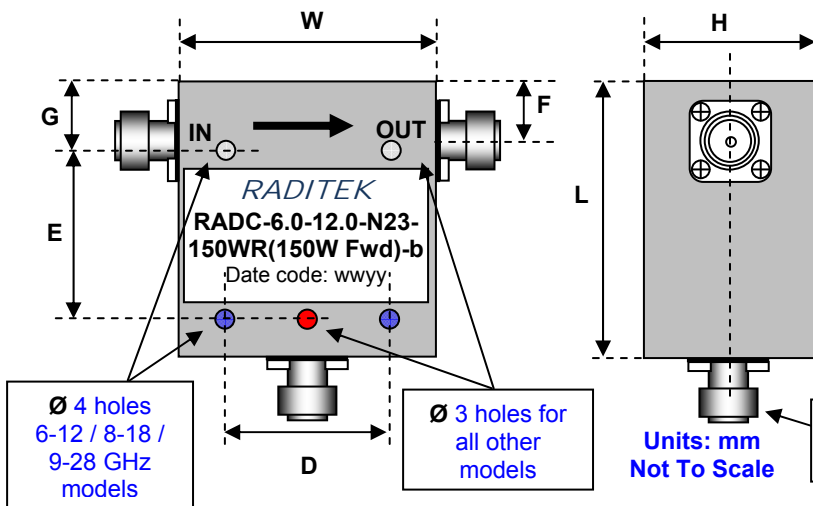


Octave Band High Power Isolators and Circulators, Coaxial N-Type

Average/Forward Power 110, 150, 200, 250Watts / Reverse (Load) Power 25, 50, 75, 100, 150, 200Watts

Note: Isolator is comprised of a Circulator and an External Load



Metric Tolerance (unless otherwise stated):
 Hole diameter +/- 0.1mm
 Dimensions (w*h) +/- 0.3 mm
 Dimensions (Coax Connector position) +/- 0.3mm
 Dimensions (hole position) +/- 0.1mm
Machined surfaces
 Flatness 0.025/mm
 Bend radius 0.8mm

Direction of RF:	
R	Default
L	

N-Type Connector options (X)				
Isolator			Circulator	
Port 1	Port 2		Port 3 Male	Port 3 Female
Female	Male	-1	-11	-21
Male	Female	-2	-12	-22
Female	Female	-3	-13	-23
Male	Male	-4	-14	-24

Order Examples: RADC-6.0-12.0-N23-150WR
 I=ISOLATOR / C=CIRCULATOR

Type Isol/Circ	Frequency GHz	W	L	H	D	E	F	G	Ø
C	1.5-3.0	65.0	65.0	22.0	tba	tba			M3
C	2.0-4.0, 2.0-4.2	55.8	51.8	22.2	40.0	32.0	11.5	11.5	M3 3hole
I	Circ Load (200W)	55.8	51.8	22.2	tba	tba	tba	tba	tba
		85	60	32					
C	3-6 (1W)	41.8	44.1	19	tba	tba	tba	tba	tba
C	3-6	45.8	45.2	24.8	35.0	25.5	15.5	14.8	M3 3hole
I	3-6	45.6	43.6	24.4	35.0	25.5	15.5	14.8	M3 3hole
I	Circ Load (75W)	45.8	45.2	24.4	tba	tba	tba	tba	tba
		80	60	40					
I	4-8 (100W)	45.6	140	40	tba	tba	tba	tba	tba
I	Circ Load (150W)	45.8	45.2	24.4	34.9	24.7	14.2	tba	tba
		83	55.2	25.1					
I or C	4-8	45.8	45.2	24.4	35.0	25.5	15.5	14.8	M3 3hole
C	4-8	45.8	45.2	26.0	tba	tba	tba	tba	tba
C	6-12	34.8	37.2	22	tba	tba	tba	tba	tba
C	8-12.4	36.0	38.0	22.8	25.0	13.0	tba	tba	M3 4hole
C	6.5-9.5, 9.5-18.0	34.8	37.2	22	tba	tba	tba	tba	tba
C	8-18	34.4	37.1	22.3	25.0	20.0	13.8	12.3	M3 4hole
C	8-18	34.6	37.1	22.3	25.0	20.0	13.8	12.3	M3 4hole
C	9-18	34.8	37.1	22.3	25.0	20.0	13.8	12.3	M3 4hole
I	10-15	34.6	60	22.3	tba	tba	tba	tba	tba

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Note: Isolator is comprised of a Circulator and an External Load

General Specifications:	1.5-3.0	2-4	3-6	4-8	*6-12	8-18	9-18	GHz
Room Temp/Over Temp	RT/OT	RT/OT	RT/OT	RT/OT	RT/OT	RT/OT	RT/OT	
Insertion loss	0.5/0.6	0.4/0.6	0.4/0.6	0.4/0.6	0.5/0.8	0.8/0.9	0.6/0.8	dB (maximum)
Isolation	18 18	18 15	18 15	18 15	17 15	14 13	15 14	dB (minimum)
VSWR	1.30:1 1.40:1	1.30:1 1.45:1	1.30:1 1.45:1	1.30:1 1.45:1	1.35:1 1.45:1	1.55:1 1.60:1	1.40:1 1.60:1	
Rated power (forward) {reverse also if circulator}	110	200	150	150, 250	150	150	150	Watts (average)
Rated power (reverse) {power in load Isolator Only}			75				75	Watts (average)
Peak Power					300	300		Watts (max)
Operating temperature	-30 to +70	-60 to +70	-60 to +70	-60 to +70	-30 to +50	-60 to +70	-60 to +70	°C
Isolator or Circulator I/C	C	C	I/C	C	C	C	I/C	
Weight		300	250	250	200	200	200	Gram

Specifications: GHz	Insertion loss dB (max)	Isolation dB (min)	VSWR (input and output)	Rated Power (Fwd) Watts (avg)	Rated Power (Rev) Watts (avg) Isolator Only	Peak Power Watts (avg)	Operating Temp°C
Room Temp/ Over Temp	RT OT	RT OT	RT OT	Rev also if circulator	Power in load		
-----Additional Sub-Set Frequencies of 2.0-4.0 GHz-----							
1.8-3.6 (C)	0.5	16	1.35:1	200			-10~+70
2.0-2.6 (C)	0.4 0.6	18 15	1.30:1 1.45:1	200			-60 to +70
2.0-4.0 (C)	≤0.6	18	1.25:1	25			-10~+40
2.0-4.0 (C)	0.4 0.6	18 15	1.30:1 1.50:1	100			room/ -30 to +70
2.0-4.0 (C)	0.5	17	1.35:1	100		350	-10~+40
2.0-4.0 (C)	0.5 0.6	18 15	1.30:1 1.50:1	100		2 kilowatts	0~+50
2.0-4.0 (C)	0.5 0.6	18 15	1.30:1 1.55:1	100			-30~+55
2.0-4.0 (C)	0.4 0.6	18 15	1.30:1 1.45:1	200			room/ -30 to +70
2.0-4.0 (C)	0.5 0.6	18 15	1.30:1 1.45:1	200			room/ -10~+70
2.0-4.0 (C)	0.4 0.6	18 15	1.30:1 1.45:1	250			-60 to +70
*2.0-4.0 (C)	0.4 0.6	18 15	1.30:1 1.50:1	300			room/ -10~+50
2.0-4.0 (I)	0.4 0.6	18 15	1.30:1 1.45:1	250	80		-60 to +70
2.0-4.0 (I)	0.6	15	1.50:1	100	50		-30 to +70
*2.0-4.0 (I) (Cir+load)	0.4 0.6	18 15	1.30:1 1.45:1	200	200		room/ -30 to +60
*2.0-4.0 (C)	0.4 0.6	18 15	1.30:1 1.45:1	200			room/ -30 to +60
*2.0-4.0 (I)	0.6 0.9	18 15	1.30:1 1.45:1	200	200	2kilowatts	room/ -30 to +70
2.0-4.2 (C)	0.6 0.8	15 14	1.50:1 1.60:1	100			room/ 0~+65

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Note: Isolator is comprised of a Circulator and an External Load

Specifications: GHz	Insertion loss dB (max)	Isolation dB (min)	VSWR (input and output)	Rated Power (Fwd) Watts (avg)	Rated Power (Rev) Watts (avg) Isolator Only	Peak Power Watts (avg)	Operating Temp°C
Room Temp/ Over Temp	RT OT	RT OT	RT OT	Rev also if circulator	Power in load		
2.08-4.2 (C)	0.6	15	1.50:1	70			-30 to +70
2.4-2.6 (C)	0.3 0.4	22 20	1.18:1 1.25:1	200		200	room -10 to +50
----- Additional Sub-Set Frequencies of 3.0-6.0 GHz -----							
3.0-6.0 (C)	0.4 0.5	18 16	1.3:1 1.4:1	100			Room -10 to +70
3.0-6.0 (C)	0.4 0.6	20 16	1.25:1 1.40:1	1			-30 to +70
3.0-6.0 (I)	0.4 0.6	18 15	1.30:1 1.45:1	50	50		-60 to +70
3.0-6.0 (I)	0.5	20	1.25:1	50	25,50		0 to +50
----- Additional Sub-Set Frequencies of 4.0-8.0 GHz -----							
4.0-8.0 (C)	0.4/0.6	18/15	1.30:1 1.45:1	75		150	-60 to +70
4.0-8.0 (I/C)	0.4 0.6	18 15	1.30:1 1.50:1	100	100		room -10 to +70
4.0-8.0 (C)	0.5 0.6	18 15	1.30:1 1.50:1	100		2 kilowatts	-10~+50
4.0-8.0 (C)	0.4 0.5	18 17	1.30:1 1.40:1	200			room / -10 to +50
*4.0-8.0 (C)	0.4 0.6	18 15	1.30:1 1.45:1	150			room/ -30 to +60
*4.0-8.0 (I) (Cir+load)	0.4 0.6	18 15	1.30:1 1.45:1	150	150		room/ -30 to +60
*4.0-8.0(C)	0.4 0.6	18 15	1.30:1 1.50:1	300			room/ -10~+50
4.0-8.0 (I)	0.6	15	1.50:1	100	50		-30 to +70
4.0-8.0 (I)	0.4 0.5	18 17	1.30:1 1.35:1		75		room 0 to +50
4.0-8.0 (I or C)	0.4 0.6	18 15	1.30:1 1.45:1	150	150		room -30 to +70
----- Additional Sub-Set Frequencies of 6.0-18.0 GHz -----							
*6.5-9.5 (C)	0.5	18	1.30:1	120		2 kilowatts	room
8.0-12.4 (C)	0.4 0.6	18 16	1.30:1 1.40:1	50-150			room/ -30 to +70
8.0-18.0 (C)	0.8 0.9	14 13	1.55:1 1.60:1	50	50		room/ -20 to +80
8.0-18.0 (C)	0.6 0.8	15 14	1.45:1 1.60:1	100			room/ -30 to +70
*8.0-18.0 (C)	0.8 0.9	14 13	1.55:1 1.60:1	150			room/ -30 to +70
8.0-18.0 (I)	0.9	13	1.60:1	100	50		-30 to +70
----- Additional Sub-Set Frequencies of 9.0-18.0 GHz -----							
*9.5-18.0	0.6	15	1.45:1	120		2 kilowatts	room
9.0-18.0 (C)	0.6 0.8	15 14	1.50:1 1.60:1	50			-30 to +70
9.0-18.0 (I)	0.6 0.8	15 14	1.45:1 1.60:1	50	50		-60 to +70
10-15 (I)*	0.6 0.8	16 15	1.40:1 1.50:1	60	60		room/ -30 to +70

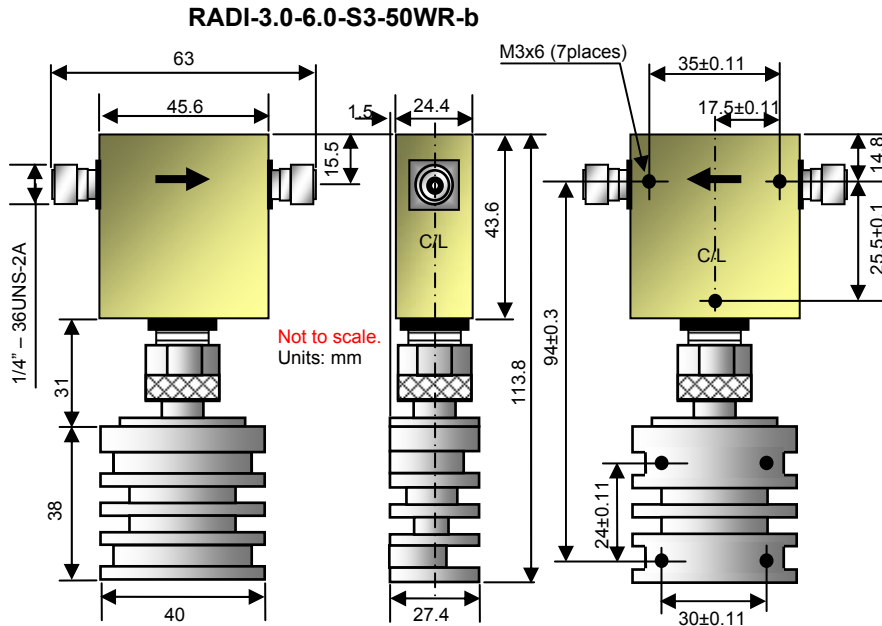
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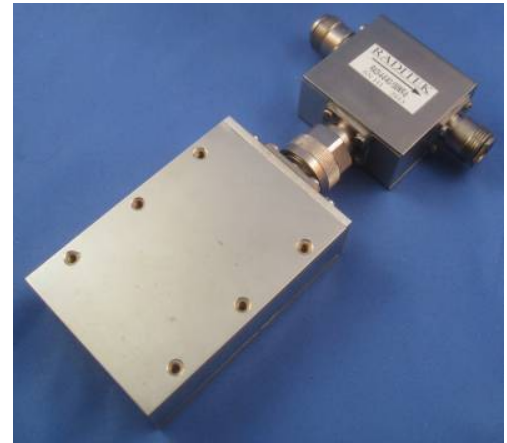
Note: Isolator is comprised of a Circulator and an External Load

***Device should be mounted on the heatsink or forced air cooling or one side finned heatsink**

1. Distance from the top and bottom to any ferromagnetic substance (i.e. steel kovar or other magnet) including another Isolator or Circulator is >30mm
2. Distance from the sides >10mm



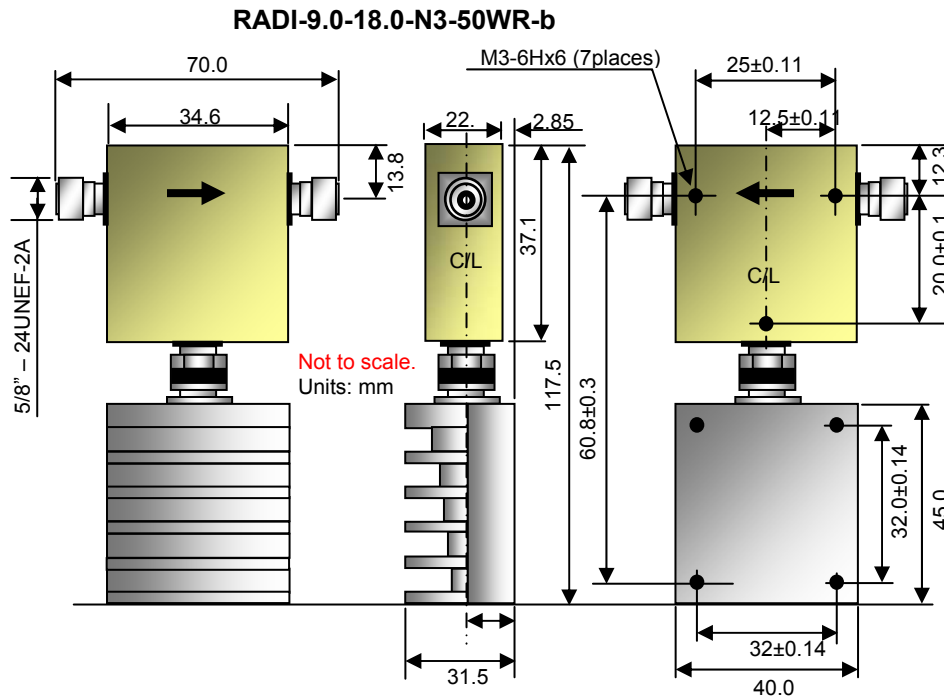
**Model Shown Below:
RADI-4-8-N3-150WR-b**



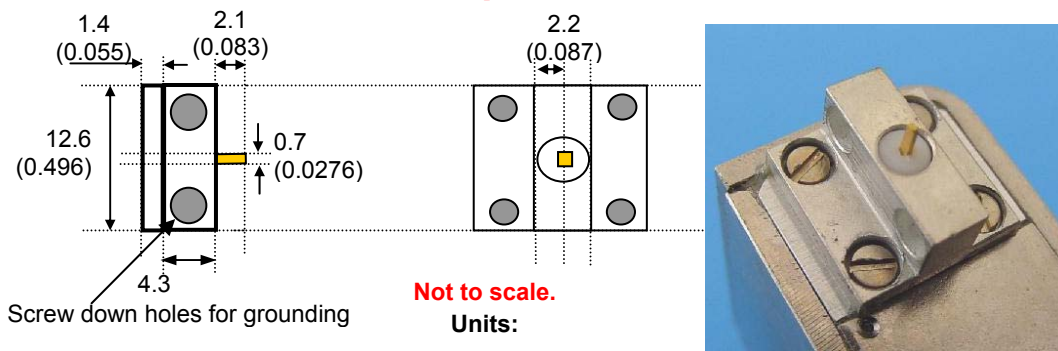
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B4 Connector Option to 3GHz



Alternative connector option (B4), so unit can be used as a "drop in." Note the screw down holes must clamp down on the grounding surfaces.