

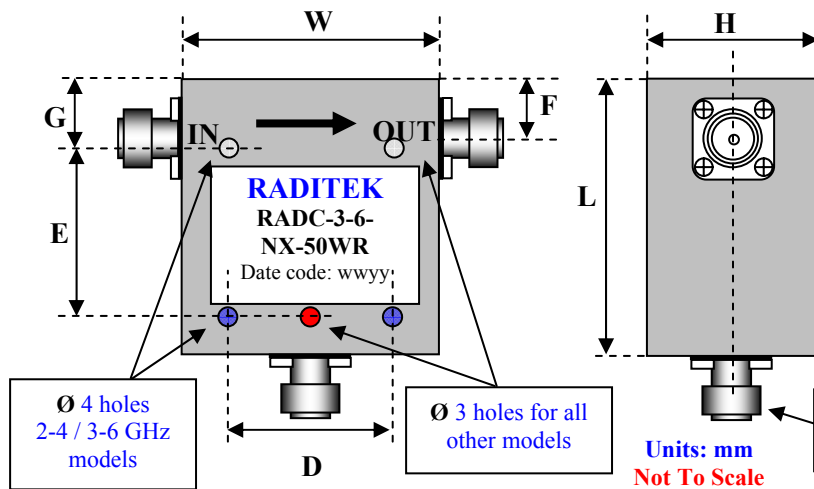
RADITEK INC. Octave Band Low Power

Isolators and Circulators, Coaxial SMA/N, Low power

RADC-Flow-Fhigh-SX-50W / RADI Flow-Fhigh-SX-1W

RoHS Compliant

code-b



N / SMA 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

Tolerance (unless otherwise stated):

Hole diameter	±0.004
Dimensions	±0.015
Machined surfaces	63√
Flatness	±0.001/inch
Bend radius	1/32 inch

Octave Bands GHz	Additional Sub-Set Frequencies GHz	W	L	H	D	E	F	G	Ø
2.0-4.0	1.7-3.7, 2-3, 2.5-5.0	41.8	44.1	19.0	33.0	32.0	7.7	7.7	M3
3.0-6.0	3.4-6.5, 3.4-7.2, 3.6-7.1, 3.625-6.500	41.8	44.1	19.0	33.0	32.0	7.7	7.7	M3
4.0-8.0	4.5-6, 4.6-8.8, 5-10, 6-8	28.6	33.2	16.5	21.0	20.8	7.5	7.4	M3
6.0-12.0	6.6-10.6, 6.6-12.5, 7-12.4, 7-12.5	21.3	24.7	15.3	15.0	14.5	7.5	7.4	M3
9.0-18.0	8-12, 8-16, 8-16.5, 9-12, 9-13, 10-12, 10-18, 10.5-15, 11-18, 12-18, 12-18.3, 12-19, 13-16	17.1	19.7	14.6	12.5	10.2	6.7	6.8	M3

☎ Order Examples: RADC-2.0-4.0-N23-50WR
I=ISOLATOR / C=CIRCULATOR

Direction of RF:	
R	Default ►
L	◄

Specifications:	2.0-4.0	3.0-6.0	4.0-8.0	6.0-12.0	9.0-18.0	GHz
Room Temp/Over Temp	RT/OT	RT/OT	RT/OT	RT/OT	RT/OT	
Insertion loss	0.4/0.6	0.4/0.6	0.4/0.6	0.4/0.6	0.6/0.8	dB (maximum)
Isolation	20*/16	20/16	20/16	20/16	16/15	dB (minimum)
VSWR (input and output)	1.25/1.4	1.25/1.4	1.25/1.4	1.25/1.4	1.45/1.5	:1
Rated power (forward) {reverse also if circulator}	50	35	60	25	25	Watts (average)
Rated power (reverse) {power in load Isolator Only }	1, 2, 5	1, 2, 15	1, 5, 15	1	1	Watts (average)
Peak Power	150		500			Watts (average)
Operating temperature	0~+70	0~+70	0~+70	0~+70	0~+70	°C

500M-1GHz and 1-2GHz Triangular units available, see separate data sheet

***For 2-4 GHz unit, we can provide 20 dB in temperature range +15°C to +35°C**

RADCorI-Octave-SMA-LP Generic-b

Specifications may be subject to change

02/07/08

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Specifications: GHz	Insertion loss dB (max)	Isolation dB (min)	VSWR :1 (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							
1.7-3.7 (C)	0.5/0.7	17/15	1.35/1.50	25	1		0~+70/-10~+70
2.0-3.0 (I)	0.5/0.7	18/15	1.35/1.50	2	2		0~+70/-10~+70
2.5-5.0 (I)	0.4/0.6	20/16	1.25/1.40	35	1, 2, 15		0~+70
Additional Sub-Set Frequencies of 3.0-6.0 GHz							
3.4-6.5 (C)	0.4/0.6	20/18	1.25/1.30	35	1, 2, 5, 15		0~+70
3.4-7.2	0.9	16	1.40	35	1		0~+70
3.6-7.1	0.4/0.6	20/18	1.25/1.30	35	1, 2, 5, 15		0~+70
3.625-6.500 (I)	0.4/0.6	20/16	1.25/1.40	35	1		0~+70
Additional Sub-Set Frequencies of 4.0-8.0 GHz							
4.5-6.0	0.3/0.4	21/19	1.20/1.25	1	1		0~+70
4.6-8.8	0.3	18	1.30	35	1		0~+70
5.0-10.0	0.4/0.6	20/16	1.25/1.40	60	1, 5, 15	500	0~+70
6.0-8.0	0.3	18	1.30	35	1		0~+70
Additional Sub-Set Frequencies of 6.0-12.0 GHz							
6.6-10.6 (C)	0.4/0.6	20/16	1.25/1.40	1	1		0~+70
6.6-12.5 (I)	0.4/0.6	20/16	1.25/1.40	25	1		0~+70
7.0-12.4 (I)	0.4/0.6	20/18	1.25/1.30	25	1		0~+70
7.0-12.5 (I)	0.4/0.6	20/16	1.25/1.40	25	1		0~+70
Additional Sub-Set Frequencies of 9.0-18.0 GHz							
8.0-12.0	0.6/0.8	16/15	1.45/1.50	25	1, 2, 10		0~+70
8.0-16.0	0.6/0.8	16/15	1.45/1.50	25	1		0~+70
8.0-16.5	0.6/0.8	16/15	1.45/1.50	25	1		0~+70
9.0-12.0	0.4/0.6	20/16	1.25/1.40	25	1		0~+70
9.0-13.0	0.4	20	1.20	35	1		0~+70
10.0-12.0	0.6	18	1.30	25	1		0~+70
10.0-18.0 (I)	0.6/0.8	16/15	1.45/1.50	25	1		0~+70
10.5-15.0 (I)	0.5	18	1.30	25	1		0~+70
11.0-18.0 (C)	0.6	14	1.40	1	1		0~+70
11.0-18.0 (I)	0.5	18	1.40	1	1		0~+70
11.0-18.0 (I)	0.5	18	1.30	1	1		-5~+65
12.0-18.0 (I)	0.6	18	1.30	25	1		0~+70
12.0-18.3 (I)	0.6	18	1.30	25	1		0~+70
12.0-19.0 (I)	0.6	18	1.30	25	1		0~+70
13.0-16.0 (I)	0.4	20	1.20	25	1		0~+70

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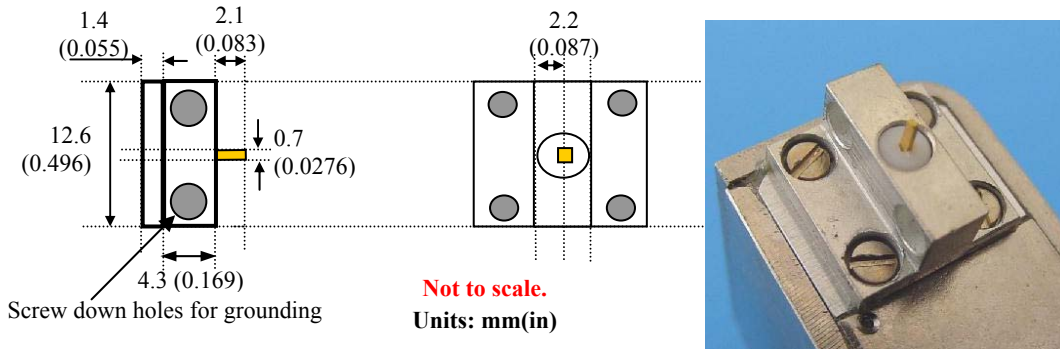
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B4 Connector Option to 3GHz



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.