

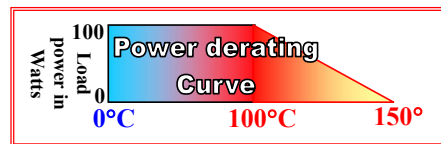
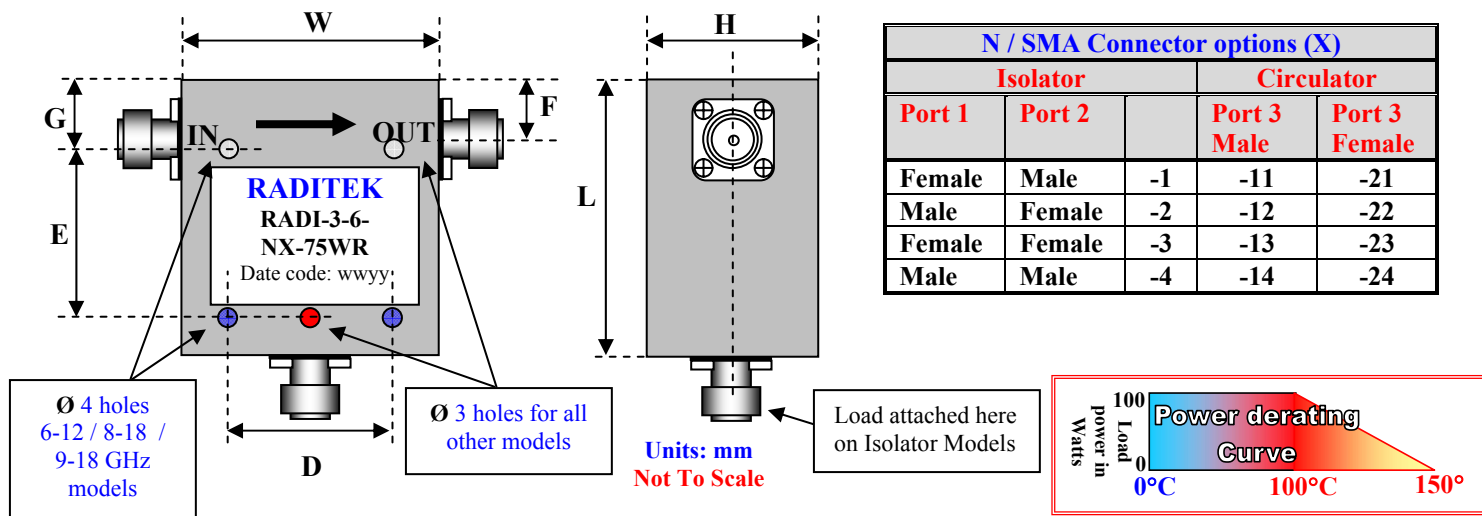
# RADITEK INC. Octave Band High Power

Isolators and Circulators, Coaxial SMA/N, High power

RADC-Flow-Fhigh-SX-150W / RADI Flow-Fhigh-SX-75W

**ROHS Compliant** code-b

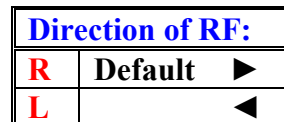
Note: Isolator is comprised of a Circulator and an External Load



| Type Isol/Circ | Units mm    | W    | L    | H    | D    | E    | F    | G    | Ø        |
|----------------|-------------|------|------|------|------|------|------|------|----------|
| C              | 1.5-3.0 GHz | 65.0 | 65.0 | 22.0 | tba  | tba  |      |      | M3       |
| C              | 2.0-4.0 GHz | 55.8 | 51.8 | 22.2 | 40.0 | 32.0 | 11.5 | 11.5 | M3 3hole |
| C              | 3-6 GHz     | 45.8 | 45.2 | 24.8 | 35.0 | 25.5 | 15.5 | 14.8 | M3 3hole |
| I              | 3-6 GHz     | 45.6 | 43.6 | 24.4 | 35.0 | 25.5 | 15.5 | 14.8 | M3 3hole |
| C              | 4-8 GHz     | 45.8 | 45.2 | 24.4 | 35.0 | 25.5 | 15.5 | 14.8 | M3 3hole |
| C              | 6-12 GHz    | 36.0 | 38.0 | 22.8 | 25.0 | 13.0 | tba  | tba  | M3 4hole |
| C              | 8-18GHz     | 34.6 | 37.1 | 22.3 | 25.0 | 20.0 | 13.8 | 12.3 | M3 4hole |
| C              | 9-18GHz     | 34.6 | 37.1 | 22.3 | 25.0 | 20.0 | 13.8 | 12.3 | M3 4hole |

**Tolerance (unless otherwise stated):**  
 Hole diameter ±0.004  
 Dimensions ±0.015  
 Machined surfaces 63√  
 Flatness ±0.001/inch  
 Bend radius 1/32 inch

Order Examples: RADC-2.0-4.0-N23-200WR  
 I=ISOLATOR / C=CIRCULATOR



| 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 (input and output)                             | 1.3/1.4    | 1.3/1.45   | 1.3/1.45   | 1.3/1.45   | 1.35/1.45  | 1.55/1.60  | 1.45/1.60  | :1              |
| Rated power (forward) {reverse also if circulator}  | 110        | 200        | 150        | 150        | 150        | 150        | 150        | Watts (average) |
| Rated power (reverse) {power in load Isolator Only} |            |            | 75         |            |            |            | 75         | Watts (average) |
| Operating temperature                               | -30 to +70 | -60 to +70 | -60 to +70 | -60 to +70 | -60 to +70 | -60 to +70 | -60 to +70 | °C              |
| Isolator or Circulator I/C                          | C          | C          | I/C        | C          | C          | C          | I/C        |                 |

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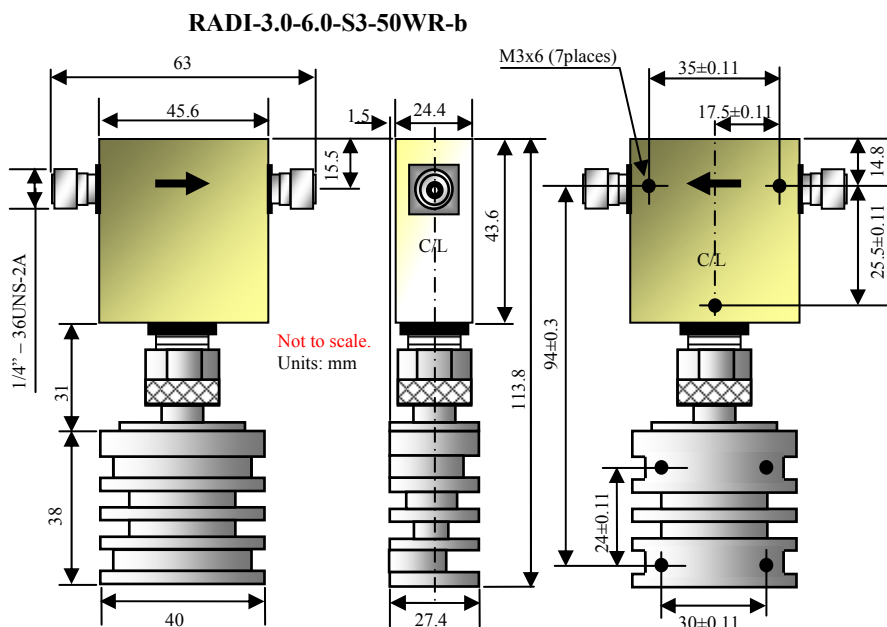
Isolators and Circulators, Coaxial SMA/N, High power

RADC-Flow-Fhigh-SX-150W / RADI Flow-Fhigh-SX-75W

**ROHS Compliant** code-b

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

| Specifications: GHz                                      | Insertion loss dB (max) | Isolation dB (min) | VSWR :1 (input and output) | Rated Power (Fwd) Watts (avg) | Rated Power (Rev) Watts (avg)<br><b>Isolator Only</b> | Peak Power Watts (avg) | Operating Temp°C |
|--|-------------------------|--------------------|----------------------------|-------------------------------|---|------------------------|------------------|
| Room Temp/<br>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                       | 200                           |   |                        | -10~+70          |
| 2.0-4.0 (C)  | ≤0.6                    | 18                 | 1.25                       | 25                            |   |                        | -10~+40          |
| 2.0-4.0 (C)  | 0.5                     | 16                 | 1.35                       | 200                           |   |                        | -10~+70          |
| 2.0-4.0 (C)  | 0.5                     | 17                 | 1.35                       | 100                           |   | 350                    | -10~+40          |
| 2.0-4.0 (C)  | 0.4/0.6                 | 18/15              | 1.30/1.45                  | 250                           |   |                        | -60 to +70       |
| 2.0-4.0 (I)  | 0.4/0.6                 | 18/15              | 1.30/1.45                  | 250                           | 80  |                        | -60 to +70       |
| 2.0-4.0 (I)  | 0.6                     | 15                 | 1.5                        | 100                           | 50  |                        | -30 to +70       |
| -----Additional Sub-Set Frequencies of 3.0-6.0 GHz-----  |                         |                    |                            |                               |   |                        |                  |
| 3.0-6.0 (I)  | 0.4/0.6                 | 18/15              | 1.30/1.45                  | 50                            | 50  |                        | -60 to +70       |
| 3.0-6.0 (I)  | 0.5                     | 20                 | 1.25                       | 50                            | 25,50   |                        | 0 to +50         |
| -----Additional Sub-Set Frequencies of 4.0-8.0 GHz-----  |                         |                    |                            |                               |   |                        |                  |
| 4.0-8.0 (I)  | 0.6                     | 15                 | 1.5                        | 100                           | 50  |                        | -30 to +70       |
| -----Additional Sub-Set Frequencies of 8.0-18.0 GHz----- |                         |                    |                            |                               |   |                        |                  |
| 8.0-18.0 (I)   | 0.9                     | 13                 | 1.6                        | 100                           | 50  |                        | -30 to +70       |
| -----Additional Sub-Set Frequencies of 9.0-18.0 GHz----- |                         |                    |                            |                               |   |                        |                  |
| 9.0-18.0 (I)   | 0.6/0.8                 | 15/14              | 1.45/1.60                  | 50                            | 50  |                        | -60 to +70       |



RADCOrI-Octave-N-SMA-HP Generic-b

Specifications may be subject to change

02/07/08

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