RADITEK INC.

RoHS COMPLIANT

code-r12

# Waveguide Limiter, 5.4-5.7 GHz, WR187 Package

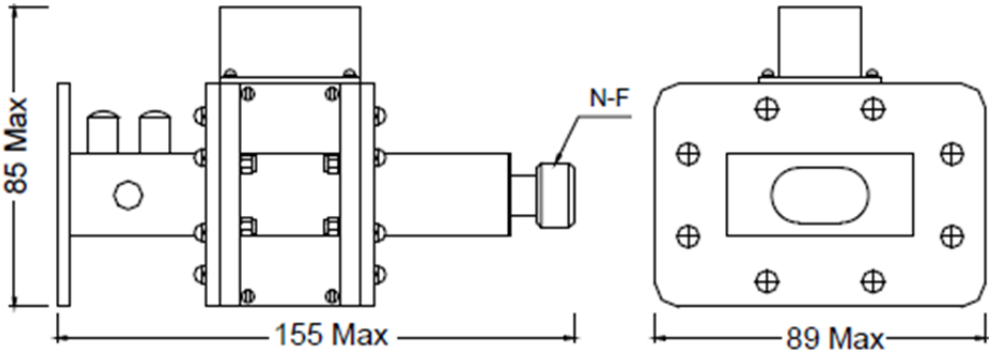
## N Female Connector, 500 Watts Average, 100 Kilowatts Peak

**FEATURES**

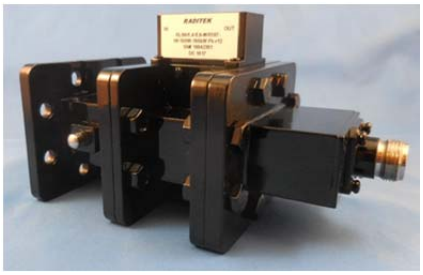
- High Power Handling
- Low Limiting Threshold
- Low Leakage Level
- Miniature Sizes

**APPLICATIONS**

- Front End Protection for LNA's
- Power Leveling (Limiting)
- Receiver Protection
- Radar&EW system




**Limiter and Waveguide to Coaxial Assembly**



**Units: mm**
**Not to scale**

**Order Examples:** **RLIM-5.4-5.7-WR187-Nf-500W-100KW-Pk-r12**
**Description:** *(Waveguide Limiter, 5.4-5.7 GHz, WR187 to N Female Connector, 500 Watts Average, 100 Kilowatts Peak)*

| **Specifications** | | | | **Units** |
|---|---|---|---|---|
| Frequency range | | **5.4-5.7** | **5.4-5.7** | GHz |
| Average Power | | 500 | 500 | W |
| Peak Power | | 100 | 100 | KW |
| Duty Cycle | | 10 | 10 | % max |
| Pulse width | | 100 | 100 | µS |
| Insertion loss | | 1.0 | 1.0 | dB typ. |
| Flatness Leakage | | 10 | 10 | dBm typ. |
| Spike Leakage | | 23 | 23 | dBm typ. |
| VSWR Input/ Output | | 1.50:1 | 1.50:1 | typ. |
| Recovery time | | 2 | 2 | µS max |
| **Environmental** | | | | |
| Operating temperature | | -20 to +60 | -20 to +60 | °C |
| Non-operating Temperature | | -55 to +70 | -55 to +70 | °C |
| Relative Humidity | | 95 (non-condensing) | 95 (non-condensing) | % typ. |
| Altitude (MIL-STD_810F) | | 10,000 to 30,000 | 10,000 to 30,000 | |
| Shock/Vibration (MIL-STD_810F) | | Airbone | Airbone | |
| Pressurization | | 30 | 30 | Psig min |
| Connectors | Input | WR187 | WR187 | |
| | Output | N female | WR187 | |
| Dimensions | | 155*89*85 | 88.45x90x85 | mm |
| Weight | | 1 | | Kg. |

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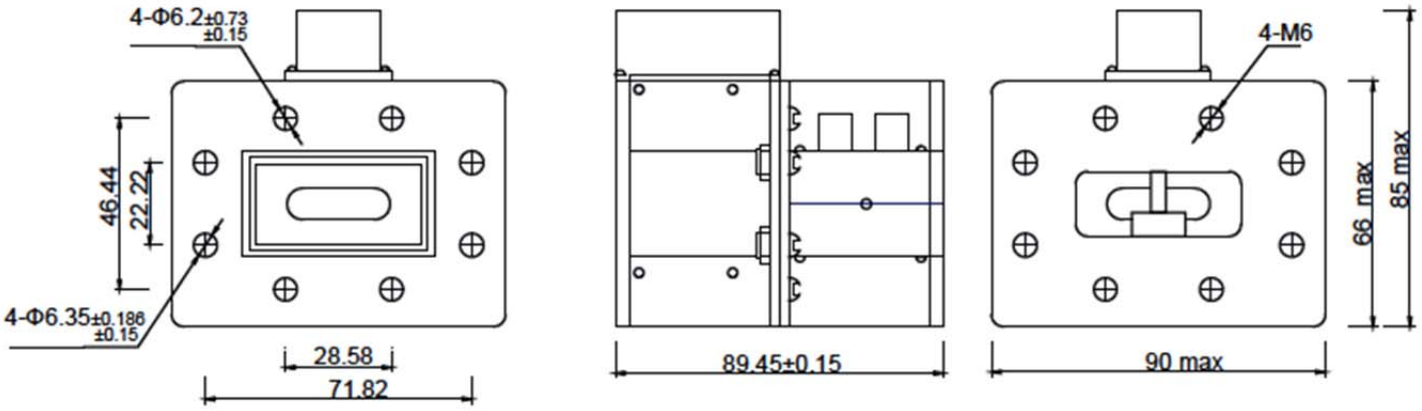
## N Female Connector, 500 Watts Average, 100 Kilowatts Peak

**Units: mm**
**Not to scale**

**OUTLINE DRAWING(mm):**




**Limiter Waveguide**



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