# Model 1427
## *Medium Power, N or SMK Connectors*
### *Convection Cooled*

**dc to 10.0 GHz**
**25 Watts**

**RoHS**



## Features

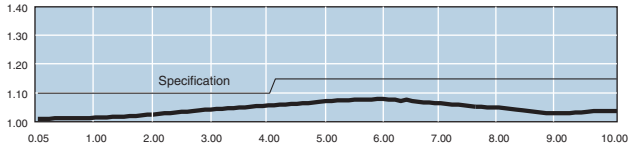
- **Designed to meet environmental requirements of Quality Injection Molded Connector.**
- **Low Intermodulation Option**
- **5 Kilowatts Peak Power**

## Specifications

**NOMINAL IMPEDANCE:** 50 Ω

**FREQUENCY RANGE:** dc to 10.0 GHz

| MAXIMUM SWR: | |
|---|---|
| Frequency (GHz) | SWR |
| dc - 4 | 1.10 |
| 4 - 8 | 1.15 |
| 8 - 10 | 1.30 |




*Typical M1427 SWR Performance*

**POWER RATING:** 25 watts **average (mounted horizontally)** @ 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C. 5 kilowatts **peak** (5 µsec pulse width; 0.25% duty cycle).

**TEMPERATURE RANGE:** -55°C to +125°C

**INTERMODULATION (Model 1427-X-LIM Only):** IM3 (Reflected) = -100 dBc with two input signals @ 869 MHz and 891 MHz with an average power of +41 dBm each.

**TEST DATA:** Swept data plots of SWR from 50 MHz to 10 GHz is available at additional cost.

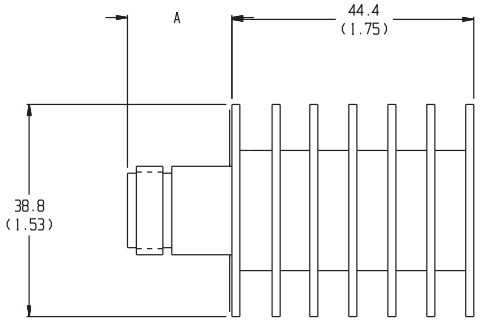
**CONNECTOR:** Type N or SMK (2.92mm) connectors mate nondestructively with MIL-C-39012 connector.

| Connector Options | Type/Description |
|---|---|
| 1 | SMK, Female |
| 2 | SMK, Male |
| 3 | Type N, Female |
| 4 | Type N, Male |

**CONSTRUCTION:** Black, finned aluminum body, stainless steel connector; gold plated beryllium copper contacts.

**WEIGHT:** 150 g (5.2 oz)

**PHYSICAL DIMENSIONS**:




| Model # | DIM A | Connector Type |
|---|---|---|
| 1427-1 | 12.7 (0.50) | 2.92mm female |
| 1427-2 | 14.0 (0.55) | 2.92mm male |
| 1427-3 | 15.0 (0.59) | N female |
| 1427-4 | 22.9 (0.90) | N male |

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.

**MODEL NUMBER DESCRIPTION:**

**Example:**

**1427 - X - LIM**

- 1427: Basic Model Number
- X: Connector Option
- LIM: IM Option*

* Add -LIM to entire model number for Low Intermodulation option. Option not available through Express.



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