

## Model 1470 High Power, N or SMK Connectors Conduction Cooled

dc to 6.0 GHz  
100 Watts



### Features

- /// Precision Connectors with high temperature support beads.
- /// Designed to meet environmental requirements of MIL-DTL-3933.
- /// 10 Kilowatts peak, Conduction Cooled
- /// Wireless Applications - Optimized for use in the communications bands.

### Specifications

**NOMINAL IMPEDANCE:** 50  $\Omega$

**FREQUENCY RANGE:** dc to 6.0 GHz

| MAXIMUM SWR:    |      |
|-----------------|------|
| Frequency (GHz) | SWR  |
| dc - 6          | 1.20 |

**3rd ORDER INTERMODULATION (1470-X-LIM ONLY):**  
Reflected Levels (IM3), -100 dBc with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each.

**POWER RATING (mounted horizontally):** 100 watts average (unidirectional), 10 kilowatt peak (5  $\mu$ sec pulse width; 0.5% duty cycle) with case temperature held within **100 °C maximum** with appropriate conductive heat sink.

**TEMPERATURE RANGE:** -55°C to 100°C

**TEST DATA:** Swept data plots of SWR from 50 MHz to 6 GHz is available at additional cost.

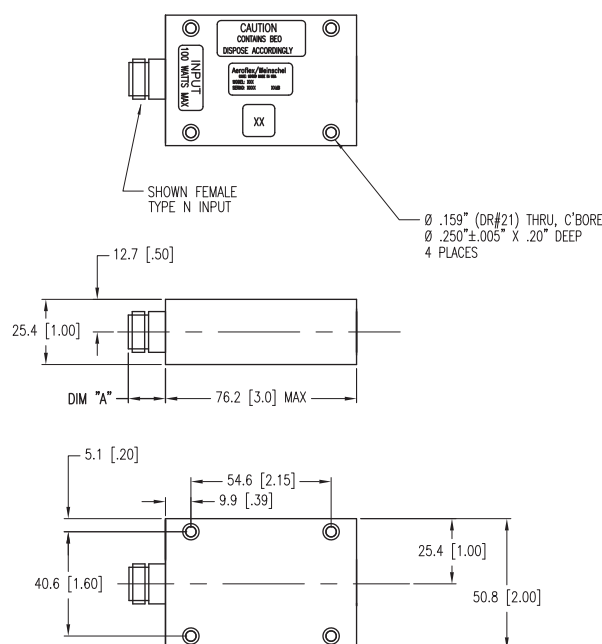
**CONNECTORS:** Type N connector per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connector. Choice of male (-4) or female connector (-3).

SMK (2.92mm) connector mates nondestructively with SMA per MIL-C-39012, 3.5mm and other 2.92mm (SMK) connector. Choice of male (-2) or female connector (-1).

**CONSTRUCTION:** Aluminum alloy body, stainless steel connectors; gold plated beryllium copper contacts.

**WEIGHT:** 300 g (10.6 oz.) maximum

**PHYSICAL DIMENSIONS:**



| Model # | DIM A       | Connector Type |
|---------|-------------|----------------|
| 1470-1  | 12.7 (0.50) | 2.92mm female  |
| 1470-2  | 14.0 (0.55) | 2.92mm male    |
| 1470-3  | 15.0 (0.59) | N female       |
| 1470-4  | 22.9 (0.90) | N male         |

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

### MODEL NUMBER DESCRIPTION:

Example:

**1470 - X - LIM**

Basic Model Number

Connector Options  
1st digit is input side  
2nd digit is output side

IM Option\*

\* Add -LIM to entire model number for Low Intermodulation option.