

Terminations & Loads

Model 1471 High Power, N or SMK Connectors Conduction Cooled

dc to 6.0 GHz
250 Watts

RoHS



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 Ω

FREQUENCY RANGE: dc to 6.0 GHz

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

3rd ORDER INTERMODULATION (1471-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: 250 watts **average**, 10 kilowatt **peak** (5 μsec pulse width; 1.25% 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.

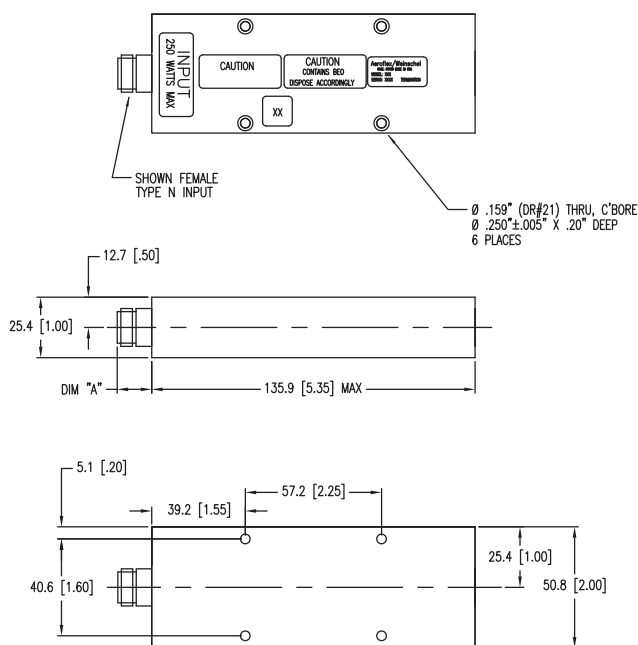
CONNECTORS: Type N connector per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connector. Choice of male (-4) or female connector (-3).

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: 500 (17.6 oz.) maximum

PHYSICAL DIMENSIONS:



Model #	DIM A	Connector Type
1471-1	12.7 (0.50)	2.92mm female
1471-2	14.0 (0.55)	2.92mm male
1471-3	15.0 (0.59)	N female
1471-4	22.9 (0.90)	N male

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

MODEL NUMBER DESCRIPTION:

Example:

1471 - X - LIM
 IM Option*
 Basic Model Number Connector Options
 1st digit is input side
 2nd digit is output side

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