

# Model 1431 High Power Coaxial Terminations

**dc to 18.0 GHz**  
**100 Watts**

**3.5mm or Type N Connector**



## Features

- /// Designed to meet environmental requirements of MIL-D-39030.
- /// Rugged injection molded connector.
- /// 1 Kilowatt Peak Power

## Specifications

**NOMINAL IMPEDANCE:** 50 Ω

**FREQUENCY RANGE:** dc to 18.0 GHz

### MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 8	1.20
8 - 18	1.30

**POWER RATING:** 100 watts average (mounted horizontally assuming unobstructed air flow and natural convection around unit) @ 25°C ambient temperature, derated linearly to 10 watts @ 125°C. 1 kilowatt peak (5 μsec pulse width; 5% duty cycle).

**INTERMODULATION (Model 1431-X-LIM Only):** IM3 (Reflected) = -100 dBc with two input signals @ 869 MHz and 891 MHz with an average power of +43 dBm each.

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

**CALIBRATION:** SWR Testing performed across the frequency band. Test data is available at additional cost.

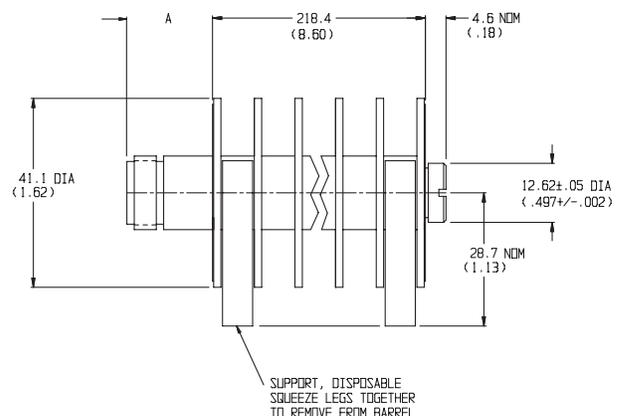
**CONNECTOR:** Type N connector per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connector. Choice of male (-4) or female connector (-3).

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

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

**WEIGHT:** 320 g (11 oz)

### PHYSICAL DIMENSIONS:

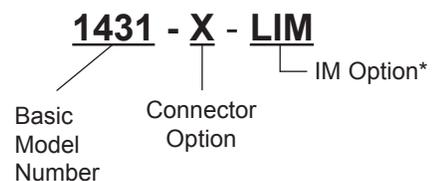


Model #	DIM A	Connector Type
1431-1	13.2 (0.52)	3.5mm female
1431-2	14.0 (0.55)	3.5mm male
1431-3	18.3 (0.72)	N female
1431-4	23.1 (0.91)	N male

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

### MODEL NUMBER DESCRIPTION:

Example:



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