

## Model 37 Medium Power, Type N Connectors Bi-directional Design!

dc to 8.5 GHz  
10 Watts

 **RoHS**



### Features

- Optimized for Wireless OEM & Test Applications.
- Precision injection molded connector dielectric.
- Designed to meet environmental requirements of MIL-DTL-3933.

### Specifications

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

**FREQUENCY RANGE:** dc to 8.5 GHz

#### MAXIMUM DEVIATION OVER FREQUENCY:

Nominal ATTN (dB)	Deviation (dB)	
	dc-4 GHz	4 - 8.5 GHz
3, 6, 10, 20	$\pm 0.30$	$\pm 0.50$
30	$\pm 0.50$	$\pm 0.80$

#### MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 4	1.15
4 - 8.5	1.25

**POWER RATING (mounted horizontally):** 10 watts **average (bi-directional)** to 25°C ambient temperature, derated linearly to 1 watts @ 125°C. Note: 3 dB model can handle 20 Watts **average (bi-directional)**. 1 kilowatt **peak** (5  $\mu$ sec pulse width; 0.5% duty cycle).

**POWER COEFFICIENT:** <0.001 dB/dB/watt

**TEMPERATURE COEFFICIENT:** <0.0004 dB/dB/°C

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

**TEST DATA:** Swept data plots of attenuation and SWR from 50 MHz to 8.5 GHz supplied.

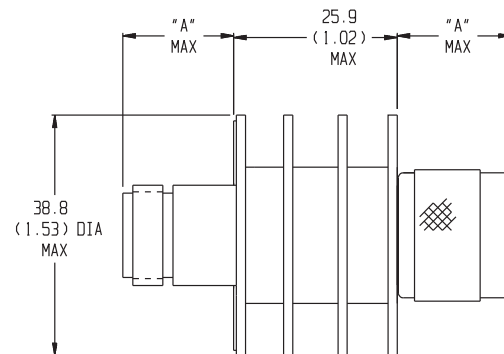
**CONNECTORS:** Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

Connector Options	Type/Description
3	Type N, Female
4	Type N, Male

**CONSTRUCTION:** Black, finned aluminum body, gold plated beryllium copper contacts.

**WEIGHT:** 110 g (4 oz.) maximum

#### PHYSICAL DIMENSIONS:

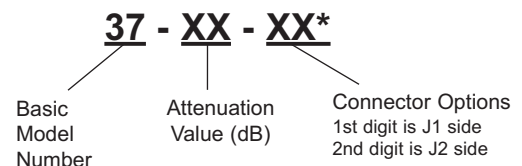


Connector	DIM A
N Male	24.1 (0.95)
N Female	19.1 (0.75)

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

#### MODEL NUMBER DESCRIPTION:

Example:



\*Unit is bi-directional and full power may be applied to either J1 or J2.