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 Ω

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	± 0.30	± 0.50
30	± 0.50	± 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 µsec 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.

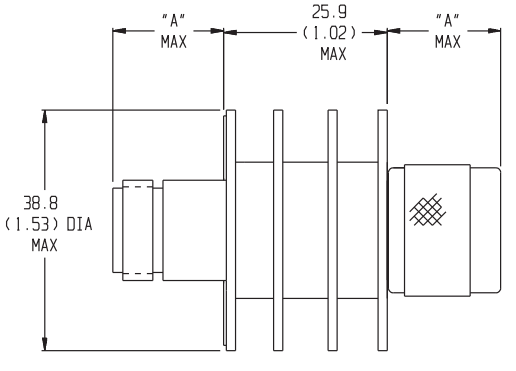
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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:

37 - XX - XX*

- **37** — Basic Model Number
- **XX** — Attenuation Value (dB)
- **XX*** — Connector Options
  - 1st digit is J1 side
  - 2nd digit is J2 side

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

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Revision Date: 08/01/2016