# Model 72
# Medium Power Fixed Coaxial Attenuator

# dc to 4.0 GHz
# 50 Watts

## *Conduction Cooled*

RoHS



EXPRESS
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## Features

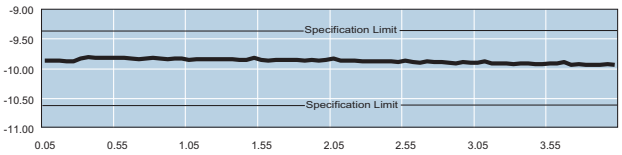
- **Compact Construction -** Lowest size/power ratio.
- **Precision Connectors with high temperature support beads.**
- **Designed to meet environmental requirements of MIL-DTL-3933.**
- **Wireless Applications** - Optimized for use in the communications bands.

## Specifications

**NOMINAL IMPEDANCE:** 50 Ω

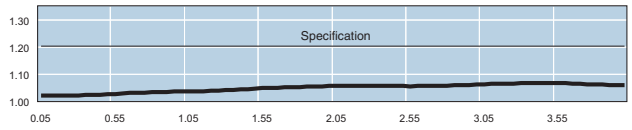
**FREQUENCY RANGE:** dc to 4.0 GHz

| MAXIMUM DEVIATION OVER FREQUENCY: | |
|---|---|
| Nominal ATTN (dB) | Deviation (dB) |
| 3, 6, 10, 20, 30, 40 | ± 0.70 |




*Typical Attenuation Accuracy of a 72-10-34*

| MAXIMUM SWR: | |
|---|---|
| Frequency (GHz) | SWR |
| dc - 4 | 1.20 |




*Typical SWR of a 72-10-34*

**POWER RATING** 50 watts **average (unidirectional)**, 5 kilowatts **peak** (5 µsec pulse width; 0.5 % duty cycle) with case temperature held within **100°C maximum** with appropriate conductive heat sink. Maximum power rating into output port is 10% of the average power rating.

**POWER COEFFICIENT:** <0.0005 dB/dB/watt

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

**TEMPERATURE RANGE:** -55°C to 100°C (case)

**TEST DATA:** Insertion Loss and SWR Testing performed across frequency range. Test data available at additional cost.

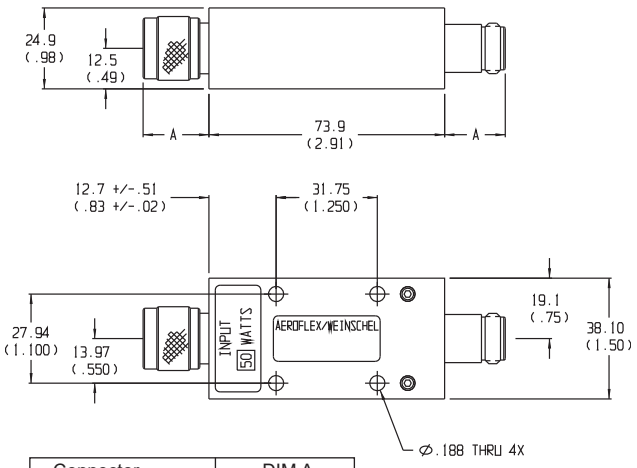
**CONNECTORS:** Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. 2.92mm connectors mate with SMA, 3.5mm, Type K and other 2.92mm connectors.

| Connector Options | Type/Description |
|---|---|
| 1 | 2.92mm, Female |
| 2 | 2.92mm, Male |
| 3 | Type N, Female |
| 4 | Type N, Male |

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

**WEIGHT:** 170 g (6 oz.) maximum

**PHYSICAL DIMENSIONS:**




| Connector | DIM A |
|---|---|
| N Male | 22.9 (0.90) |
| N Female | 15.0 (0.59) |
| 2.92mm, Male | 14.0 (0.55) |
| 2.92mm, Female | 12.7 (0.50) |

NOTE:

1. All dimensions are given in mm (inches) and are maximum, unless otherwise specified.
2. Unit available with RoHS compliant materials, specify when ordering.

**MODEL NUMBER DESCRIPTION:**

**Example:**

**72 - XX - XX**

- **72** — Basic Model Number
- **XX** — Attenuation Value (dB)
- **XX** — Connector Options: 1st digit is input side; 2nd digit is output side



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