

# Fixed Coaxial Attenuators



## Model 72 Medium Power Fixed Coaxial Attenuator

dc to 4.0 GHz  
50 Watts

Conduction Cooled



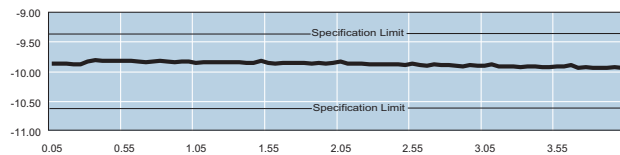
### Features

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

### Specifications

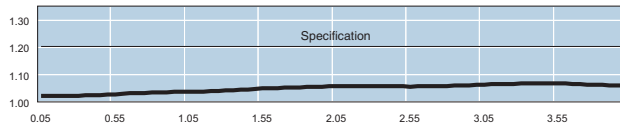
**NOMINAL IMPEDANCE:** 50 Ω  
**FREQUENCY RANGE:** dc to 4.0 GHz

| 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.

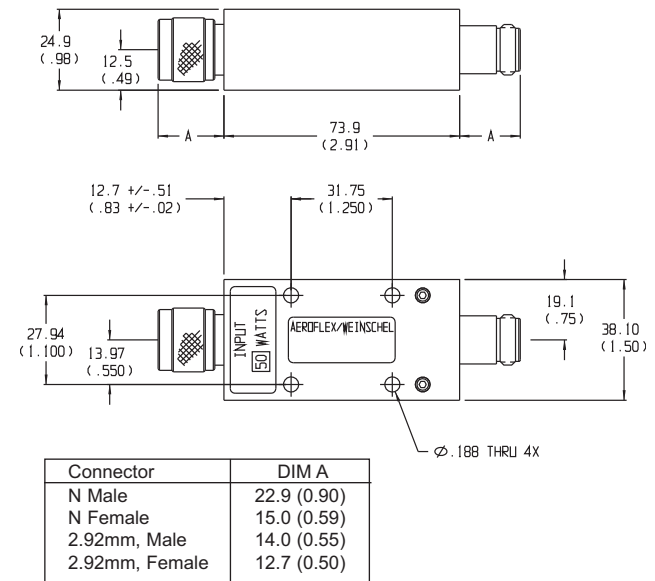
**CONNECTORS:** Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. 2.92mm connectors mate with SMA, 3.5mm, Type K and other 2.92mm connectors.

| 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:



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

### MODEL NUMBER DESCRIPTION:

Example:

