

# Fixed Coaxial Attenuators



## Model 72 Medium Power Fixed Coaxial Attenuator

dc to 4.0 GHz  
50 Watts

Conduction Cooled



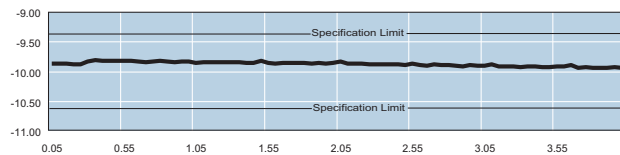
### Features

- /// **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

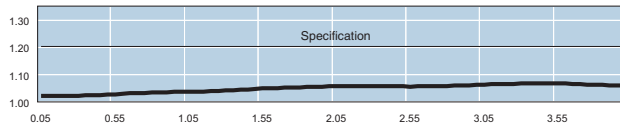
**NOMINAL IMPEDANCE:** 50 Ω  
**FREQUENCY RANGE:** dc to 4.0 GHz

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.

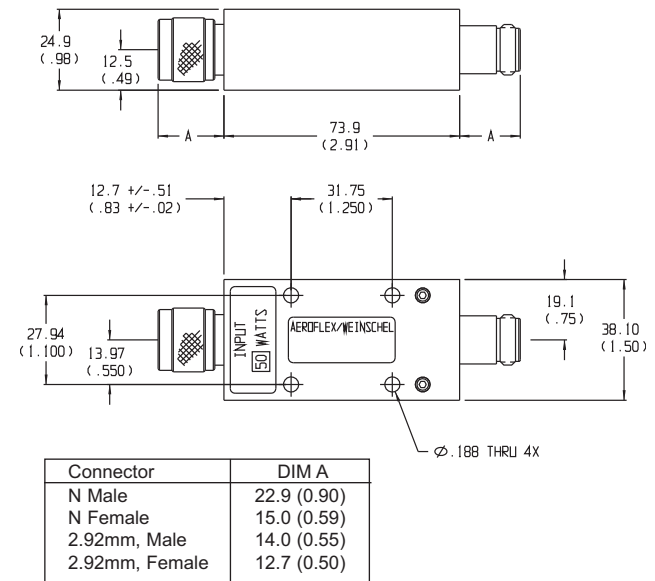
**CONNECTORS:** Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. 2.92mm connectors mate with SMA, 3.5mm, Type K and other 2.92mm connectors.

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:

