

# Fixed Coaxial Attenuators



## Model 23 Medium Power, Type N Connectors Bi-directional Design!

dc to 18.0 GHz  
10 Watts



### Features

- /// Precision injection molded connector dielectric.
- /// Designed to meet environmental requirements of MIL-DTL-3933.

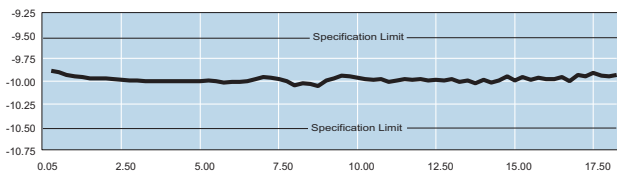
### Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 18.0 GHz

#### MAXIMUM DEVIATION OVER FREQUENCY:

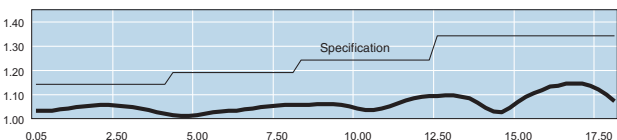
Nominal ATTN (dB)	Deviation (dB)
1, 2	± 0.50
3, 6	± 0.30
10, 20	± 0.50
30, 40	± 1.00
50	± 1.25
60	± 1.50



Typical Attenuation Accuracy of a 23-10-34

#### MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 4	1.15
4 - 8	1.20
8 - 12.4	1.25
12.4 - 18	1.35



Typical SWR of a 23-10-34

**POWER RATING (mounted horizontally):** 10 watts average (bi-directional) to 25°C ambient temperature, derated linearly to 1 watts @ 125°C. 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 18 GHz supplied.

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

#### Connector Options

3  
4

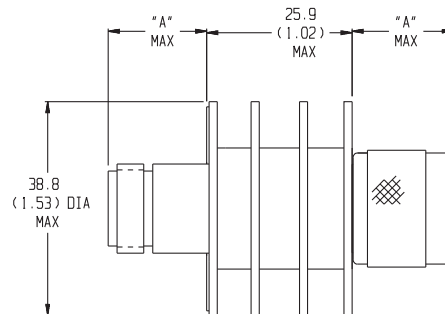
#### Type/Description

Type N, Female  
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:

**23 - XX - 34\***

Basic Model Number

Attenuation Value (dB)

Connector Options -34 Male/Female only!

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