

## Model 82 High Power Coaxial Attenuator

dc to 3.0 GHz  
1,000 Watts

### Type N Connectors



### Features

- Quality connectors with special high temperature support beads.
- Designed to meet environmental requirements of MIL-DTL-3933.

### Specifications

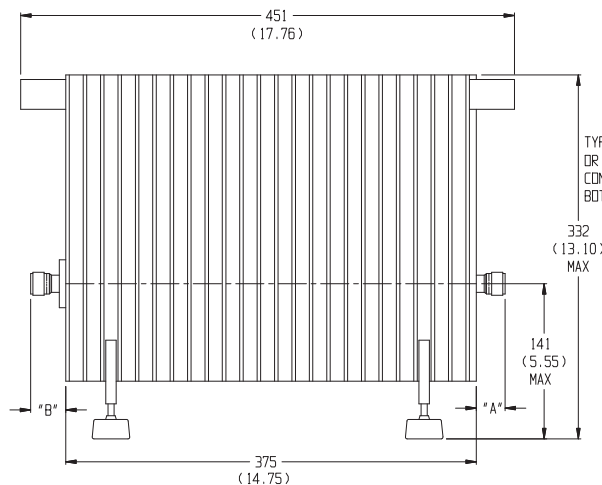
**NOMINAL IMPEDANCE:** 50 Ω

**FREQUENCY RANGE:** dc to 3.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY (dB):		
NOM ATTN (dB)	Deviation	
	dc - 1.5 GHz	1.5 - 3.0 GHz
10, 20, 30, 40	±1.0	+1.5, -1.0 dB

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 1.5	1.15
1.5 - 3.0	1.25

### PHYSICAL DIMENSIONS:



**POWER RATING (assuming unobstructed air flow and natural convection around unit):** 1,000 watts **average (unidirectional)** to 25°C ambient temperature, derated linearly to 100 watts @ 125°C. 10 kilowatt **peak** (5 μsec pulse width; 5% duty cycle). Maximum power into output is 75 Watts **average**.

**POWER COEFFICIENT:** <0.0001 dB/dB/Watt

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

**TEMPERATURE RANGE:** -55°C to +125°C with power derating applied.

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

**CONNECTOR:** Type N connectors - mate nondestructively with MIL-C-39012 connectors .

Options	Type/Description
3	Type N, Female
4	Type N, Male

**CONSTRUCTION:** Black, finned aluminum body, stainless steel or silver plated brass connectors with gold plated beryllium copper or stainless steel N male contacts.

**WEIGHT:** Net 13 kg (28.7 lbs) maximum

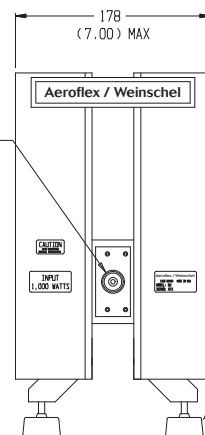
### MODEL NUMBER DESCRIPTION:

**82 - XX - XX**

Basic Model Number

Attenuation Value

Connector Options  
- 1st Digit is input side  
- 2nd digit is output side.



FEET ARE SPRING LOADED FOR SELF LEVELING AND ARE SHOWN FULLY EXTENDED AND CAN BE COMPRESSED UP TO 0.16 INCHES (4 PLCS)

### NOTE:

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

Connector Type	DIM A	DIM B
N female	15.0 (0.59)	21.4 (0.84)
N male	22.9 (0.90)	29.3 (1.15)