

Model 82 High Power Coaxial Attenuators

dc to 3.0 GHz
1,000 Watts

Choice of Type N or 7/16 Connector...



Features

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

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 3.0 GHz

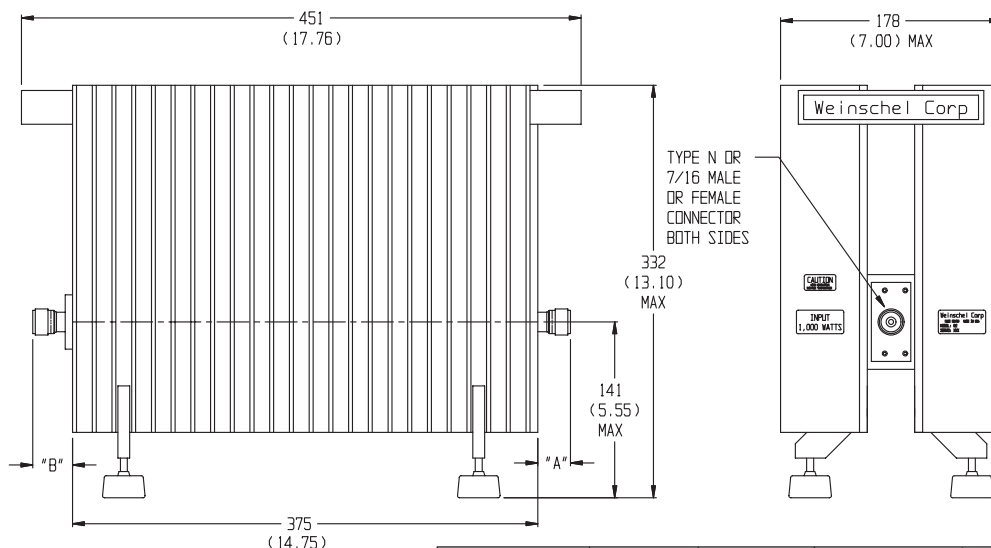
MAXIMUM DEVIATION OVER FREQUENCY (dB):

NOM ATTN (dB)	Deviation	
	dc - 1.5 GHz	1.5 - 3.0 GHz
10, 20, 30, 40	±0.50	+1.5, -0.5 dB

MAXIMUM SWR:

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

PHYSICAL DIMENSIONS:



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

Connector Type	DIM A	DIM B	Connector Type	DIM A	DIM B
N female	15.0 (0.59)	21.4 (0.84)	7/16 female	30.7 (1.21)	37.1 (1.46)
N male	22.9 (0.90)	29.3 (1.15)	7/16 male	32.3 (1.27)	38.7 (1.52)

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.

CALIBRATION: 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 or 7/16 connector that conforms to DIN 47223, IEC 169-4, VG 95250, CECC 22 190.

Options	Type/Description	Options	Type/Description
1	7/16, Female	3	Type N, Female
2	7/16, Male	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 12.10 kg (34 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.