

Model 90 Medium Power Fixed Coaxial Attenuator

dc to 18.0 GHz
50 Watts

SMA & N Connectors



Features

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

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

Nominal ATTN (dB)	Deviation (dB)
3, 6	± 0.50
10, 20	± 0.75
30	± 1.00

MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 8	1.15
8 - 12.4	1.20
12.4 - 18	1.30

POWER RATING (mounted horizontally): 50 watts **average (bi-directional)** to 25°C ambient temperature, derated linearly to 10 Watts @ 125°C. 1 kW **peak** (5 μ sec pulse width; 2.5% duty cycle).

POWER COEFFICIENT: <0.0006 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55 °C to 125 °C

TEST DATA SUPPLIED: Sweep SWR/Attenuation data/ plots performed across 50 MHz to 18 GHz frequency range. Frequency Markers 0.05, 2.0, 4.0 8.0, 12.4, 18 GHz.

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

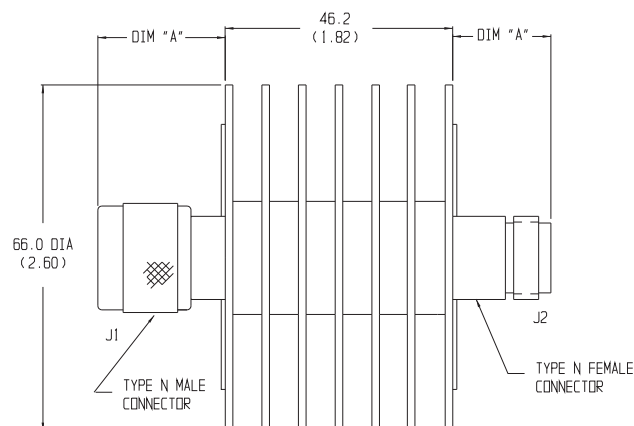
SMA Connectors - mate nondestructively with SMA per MIL-C-39012, 2.92mm and 3.5mm connectors.

Options	Description	Options	Description
1	SMA Female	3	Type N, Female
2	SMA Male	4	Type N, Male

CONSTRUCTION: Black, finned aluminum body, gold plated beryllium copper contacts.

WEIGHT: 120 g (4.2 oz.) maximum

PHYSICAL DIMENSIONS:



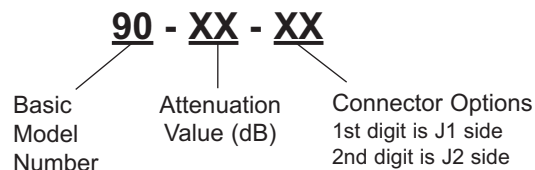
Connector	DIM A	Connector	DIM A
N Male	24.1 (0.95)	SMA Female	14.0 (0.55)
N Female	19.0 (0.75)	SMA Male	13.2 (0.52)

NOTE:

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

MODEL NUMBER DESCRIPTION:

Example:



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