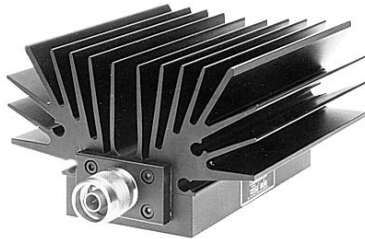




Model 49 High Power Fixed Coaxial Attenuators

dc to 8.5 GHz
150 Watts

Convection Cooled



Features

- /// **Quality connectors with special high temperature support beads.**
- /// **Designed to meet environmental requirements of MIL-A-3933.**
- /// **Flexible Mounting Position** - The units may be mounted in horizontal (fins up) or vertical position.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 8.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY (dB):

Nominal ATTN (dB)	dc-4 GHz		4 - 8.5 GHz	
	49	49-LIM	49	49-LIM
3, 6	± 0.40	---	± 0.75	---
10, 20	± 0.40	± 0.70	± 0.75	± 1.25
30	± 0.40	± 0.70	± 0.75	± 1.75
40	± 0.50	± 0.70	± 1.00	± 1.75

MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 4	1.25
4 - 8.5	1.35

3rd ORDER INTERMODULATION (49-XX-XX-LIM ONLY): Reflected Levels (IM3), -95 & Through Levels (IM3), -110 dBc with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each.

POWER RATING (mounted horizontally or vertically): 150 watts **average** (unidirectional) to 35°C ambient temperature, derated linearly to 15 watts @ 125°C. 5 kilowatt **peak** (5 μ sec pulse width; 1.5% duty cycle). Maximum power rating into output port is 20 watts average.

POWER COEFFICIENT: <0.0001 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to 125°C

CALIBRATION: Insertion loss test data supplied at 0.05, 4.0, and 8.5 GHz. Other test data can be provided at additional cost.

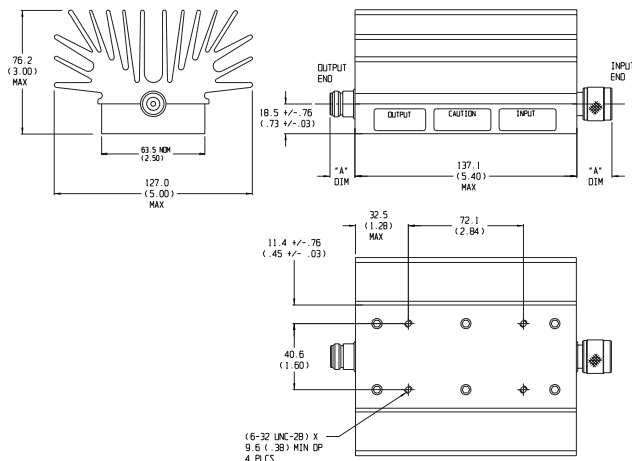
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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

CONSTRUCTION: Aluminum alloy body, stainless steel connectors; gold plated beryllium copper female contacts or stainless steel male contacts. (-LIM option uses different connector and contact materials)

WEIGHT: 1,450 g (3 lbs, 3 oz.) maximum

PHYSICAL DIMENSIONS:



Connector	DIM A
N Male	22.9 (0.90)
N Female	15.0 (0.59)

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

MODEL NUMBER DESCRIPTION:

Example:

49 - XX - XX - LIM

Basic Model Number Attenuation Value (dB) Connector Options
IM Option*
1st digit is input side
2nd digit is output side

*Add -LIM for Low Intermodulation option. Option only available in 10, 20, 30, and 40 dB and is not available through Express.