# **Fixed Coaxial Attenuators**



# Model 49 High Power Fixed Coaxial Attenuator

# dc to 8.5 GHz 150 Watts

# **☑** RoHS

## Conduction/Convection Cooled



## **Features**

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

# **Specifications**

NOMINAL IMPEDANCE: 50  $\Omega$ 

FREQUENCY RANGE: dc to 8.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY (dB):						
Nominal ATTN (dB)	dc-4 GHz 49 49-LIM		4 - 8.5 GHz 49 49-LIM			
3, 6 10, 20 30 40	± 0.40 ± 0.40 ± 0.40 ± 0.50	± 0.70 ± 0.70 ± 0.70	± 0.75 ± 0.75 ± 0.75 ± 1.00	± 1.25 ± 1.75 ± 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 μsec pulse width; 1.5% duty cycle). Maximum power rating into output port is 25 watts average.

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

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to 125°C

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

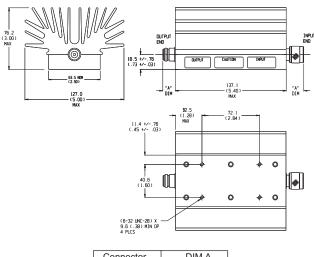
**CONNECTORS:** Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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:**



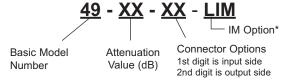
Connector	DIM A	
N Male	22.9 (0.90)	
N Female	15.0 (0.59)	

#### NOTE:

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

### MODEL NUMBER DESCRIPTION:

#### Example:



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

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