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 Ω 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	<u>+</u> 0.40		<u>+</u> 0.75	
10, 20	<u>+</u> 0.40	<u>+</u> 0.70	<u>+</u> 0.75	<u>+</u> 1.25
30	<u>+</u> 0.40	<u>+</u> 0.70	<u>+</u> 0.75	<u>+</u> 1.75
40	<u>+</u> 0.50	<u>+</u> 0.70	<u>+</u> 1.00	<u>+</u> 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.

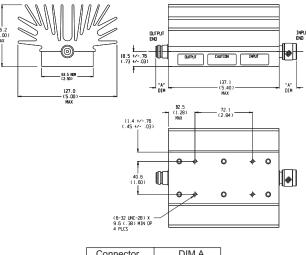
Connector Options	
3	
4	

Type/Description Type N, Female 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:

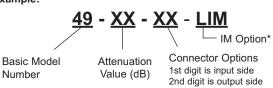


22.9 (0.90)
15.0 (0.59)

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:



*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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