Fixed Coaxial Attenuators



Model 49 High Power Fixed Coaxial Attenuator

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	dc-4 GHz		4 - 8.5 GHz	
ATTN (dB)	49 49-LIM		49 49-LIM	
3, 6	<u>+</u> 0.40	<u>+</u> 0.70	<u>+</u> 0.75	+ 1.25
10, 20	<u>+</u> 0.40	<u>+</u> 0.70	<u>+</u> 0.75	+ 1.75
30	<u>+</u> 0.40	<u>+</u> 0.70	<u>+</u> 0.75	+ 1.75
40	<u>+</u> 0.50	<u>+</u> 0.70	<u>+</u> 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 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.

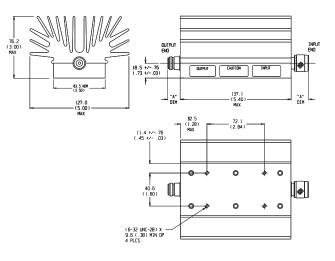
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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.

MODEL NUMBER DESCRIPTION:

Example:

49 - XX - XX - LIM Basic Model Attenuation Value (dB) Connector C 1st digit is inp

Connector Options 1st digit is input side 2nd digit is output side

– IM Option*

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

5305 Spectrum Drive, Frederick, MD 21703-7362 • TEL: 301-846-9222, 800-638-2048 • Fax: 301-846-9116 web: www.aeroflex-weinschel.com • email: sales@aeroflex-weinschel.com