Fixed Coaxial Attenuators

AEROFLEX WEINSCHEL

Model 24
Medium Power Fixed Coaxial Attenuator

dc to 8.5 GHz
50 Watts

Bi-Directional Design!

RoHS

Features

- **Designed to meet environmental requirements of MIL-DTL-3933.**
- **Low Intermodulation option available.**
- **Mode free operation to 10 GHz.**

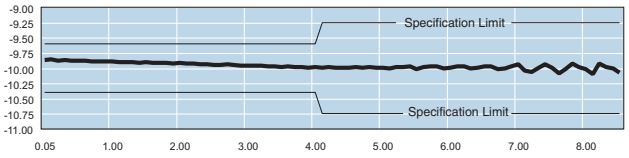
Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 8.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY (dB):

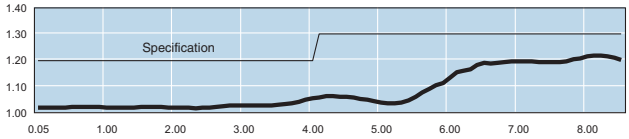
Nominal ATTN (dB)	dc-4 GHz 24	dc-4 GHz 24-LIM	4 - 8.5 GHz 24	4 - 8.5 GHz 24-LIM
3, 6	± 0.40	- - -	± 0.75	- - -
10, 20	± 0.40	± 0.50	± 0.75	± 1.00
30, 40	± 0.60	± 0.70	± 1.00	± 1.25



Typical Attenuation Accuracy of a 24-10-34

MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 4	1.20
4 - 8.5	1.30



Typical SWR of a 24-10-34

3rd ORDER INTERMODULATION (24-XX-XX-LIM only!): Reflected Levels (IM3), -100 & Through Levels (IM3), -110 dBc with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each. Option only available 10, 20, 30, 40 dB. IM specification at J2 limited to 20 Watts of input power.

POWER RATING (mounted horizontally): 50 watts **average (bi-directional)** to 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C. Note: 3 dB model can handle 100 Watts **average (bi-directional)**. 5 kilowatt **peak** (5 µsec pulse width; 0.5% duty cycle).

POWER COEFFICIENT: <0.0003 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.

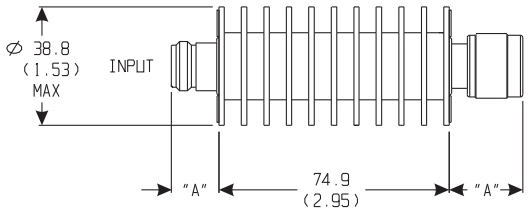
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. 2.92mm connectors - mate nondestructively with SMA per MIL-C-39012, 3.5mm, SMK, and other 2.92mm. Female 2.92mm connector NOT RoHS compliant.

Options	Description	Options	Description
1	2.92mm, Female	3	Type N, Female
2	2.92mm, Male	4	Type N, Male

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

WEIGHT: 280 g (10 oz.) maximum

PHYSICAL DIMENSIONS:



Connector	DIM A	Connector	DIM A
N Male	22.9 (0.90)	2.92mm Male	14.0 (0.55)
N Female	15.0 (0.59)	2.92mm Female	12.7 (0.50)

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:

24 - XX - XX* - LIM

- 24: Basic Model Number
- XX: Attenuation Value (dB)
- XX*: Connector Options (1st digit is J1 side; 2nd digit is J2 side)
- LIM: IM Option**

*Unit is bi-directional & full power may be applied to either J1 or J2.
**Add -LIM to entire model number for Low Intermodulation option. Option only available in 10, 20, 30, 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.com/weinschel • email: weinschel-sales@aeroflex.com

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