

Fixed Coaxial Attenuators

Model 24 Medium Power Fixed Coaxial Attenuator

dc to 8.5 GHz 50 Watts

Bi-Directional Design!







Features

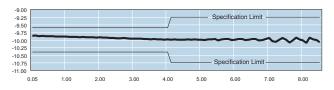
- Designed to meet environmental requirements of MIL-A-3933.
- // Low Intermodulation option available.
- // Mode free operation to 10 GHz.

Specifications

NOMINAL IMPEDANCE: 50 Ω

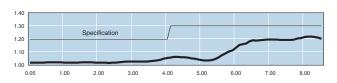
FREQUENCY RANGE: dc to 8.5 GHz

MAXIMUM DEV	MAXIMUM DEVIATION OVER FREQUENCY (dB):							
Nominal	dc-4 GHz		4 - 8.5 GHz					
ATTN (dB)	24	24-LIM	24	24-LIM				
3, 6	<u>+</u> 0.40		<u>+</u> 0.75					
10, 20	<u>+</u> 0.40	<u>+</u> 0.50	<u>+</u> 0.75	<u>+</u> 1.00				
30, 40	<u>+</u> 0.60	<u>+</u> 0.70	<u>+</u> 1.00	<u>+</u> 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.

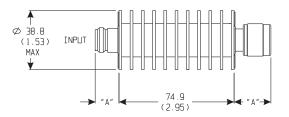
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. 2.92mm connectors - mate nondestructively with SMA per MIL-C-39012, 3.5mm, SMK, and other 2.92mm. Female 2.92mm connector NOT RoHS compliant.

Options	<u>Description</u>	Options	<u>Description</u>
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:

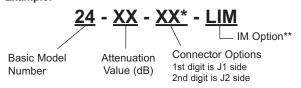


Connector	DIM A	Connector	DIM A
N Male	22.9 (0.90)	2.92mm Male	14.0 (0.55)
N Female	15.0 (0.59)	2.92mm Female	12.7 (0.50)

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

MODEL NUMBER DESCRIPTION:

Example:



*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.