## **Fixed Coaxial Attenuators**



## Model 24 Medium Power, N & SMK Connectors

dc to 8.5 GHz 50 Watts





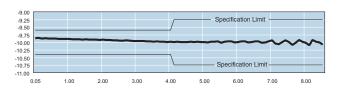
// Designed to meet environmental requirements of MIL-DTL-3933.

- // Low Intermodulation option available.
- // Mode free operation to 10 GHz.

## **Specifications**

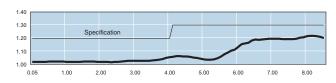
NOMINAL IMPEDANCE: 50  $\Omega$  FREQUENCY RANGE: dc to 8.5 GHz

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



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.

**POWER RATING (mounted horizontally):** 50 watts **average (bi-directional)** to 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C. 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:** Swept data plots of attenuation and SWR from 50 MHz to 8.5 GHz supplied.

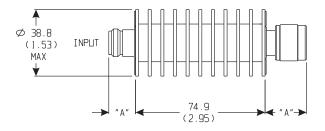
**CONNECTORS:** Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. SMK (2.92mm) connectors - mate nondestructively with SMA per MIL-C-39012, 3.5mm, SMK, and other 2.92mm.

<u>Options</u>	<u>Description</u>	<u>О</u> р	tions Description
1	SMK, Female	3	Type N, Female
2	SMK, Male	4	Type N, Male

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

WEIGHT: 280 g (10 oz.) maximum

PHYSICAL DIMENSIONS:

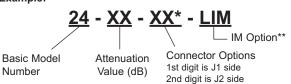


Connector	DIM A	Connector	DIM A
N Male	22.9 (0.90)	SMK Male	14.0 (0.55)
N Female	15.0 (0.59)	SMK Female	12.7 (0.50)

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

## MODEL NUMBER DESCRIPTION:

Example:



<sup>\*</sup>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.