Fixed Coaxial Attenuators

api technologies corp.
›WEINSCHEL

Model 24
Medium Power, N & SMK Connectors
Bi-Directional Design!

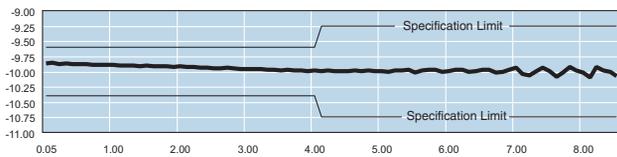## dc to 8.5 GHz
50 Watts

☑ **RoHS**

Features

〽 **Designed to meet environmental requirements of MIL-DTL-3933.**

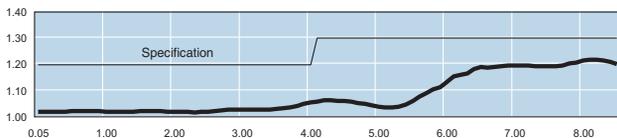〽 **Low Intermodulation option available.**

〽 **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)	24		24-LIM	
	dc-4 GHz	4 - 8.5 GHz	dc-4 GHz	4 - 8.5 GHz
3, 6, 10, 20	± 0.40	± 0.75	± 0.40	± 0.75
30, 40	± 0.60	± 1.00	± 0.60	± 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.
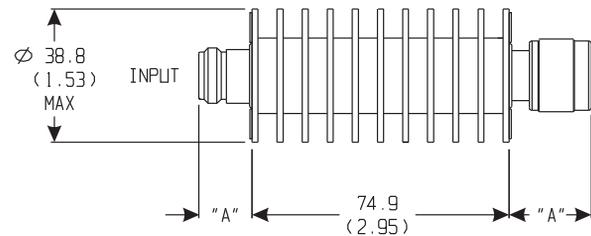
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. SMK (2.92mm) connectors - mate nondestructively with SMA per MIL-C-39012, 3.5mm, SMK, and other 2.92mm.

Options	Description	Options	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.

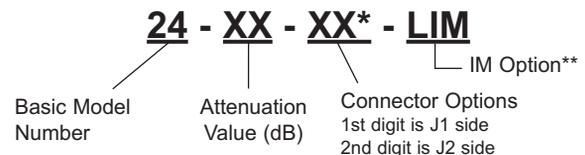**WEIGHT:** 280 g (10 oz.) maximum

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:

24 - XX - XX* - LIM

IM Option**

Basic Model Number

Attenuation Value (dB)

Connector Options
1st digit is J1 side
2nd digit is J2 side

*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.