Weinschel CORPORATION

Model 24
Medium Power Fixed Coaxial Attenuators

dc to 8.5 GHz
50 Watts

Bi-Directional Design!

EXPRESS 800-542-4457



Features

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

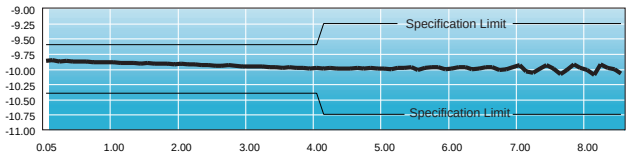
Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 8.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

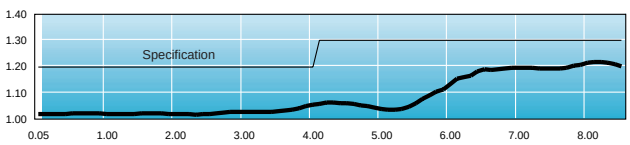
Nominal ATTN (dB)	Deviation (dB) dc-4 GHz	4 - 8.5 GHz
3, 6, 10, 20	± 0.40	± 0.75
30, 40	± 0.60	± 1.00



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

INTERMODULATION (24-XX-XX-LIM only!): 3rd Order Reflected Levels (IM3), -110 dBc maximum with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each. Option only available with Type N Connectors.

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: <0.001 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to 125°C (+85°C with GPC-7 connectors)

CALIBRATION: Insertion loss test data supplied at 0.05, 4.0, and 8.5 GHz. Other test data can be provided at additional cost.

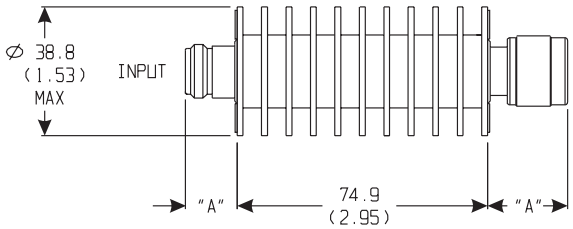
CONNECTORS: SMA, Type N and TNC connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. GPC-7 connectors per IEEE-STD-287

Options	Description	Options	Description
1	SMA, Female	5	GPC7
2	SMA, Male	6	TNC Female
3	Type N, Female	7	TNC 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)	GPC7	21.0 (0.83)
N Female	15.0 (0.59)	TNC Male	38.1 (1.50)
SMA Female	14.0 (0.55)	TNC Male	38.1 (1.50)
SMA Male	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

- 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 and only available with Type N connectors.

9/17/99 5305 Spectrum Drive, Frederick, MD 21703-7362 • TEL: 301-846-9222, 800-638-2048 • Fax: 301-846-9116
web: www.weinschel.com • email: sales@weinschel.com