

Model 40

Model 57

High Power Fixed Coaxial Attenuator

Type N Connectors

dc to 1.5 GHz

dc to 5.0 GHz

150 Watts

 **RoHS**



Features

- Quality connectors with special high temperature support beads.
- Designed to meet environmental requirements of MIL-A-3933.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: Model 40: dc to 1.5 GHz
Model 57: dc to 5.0 GHz

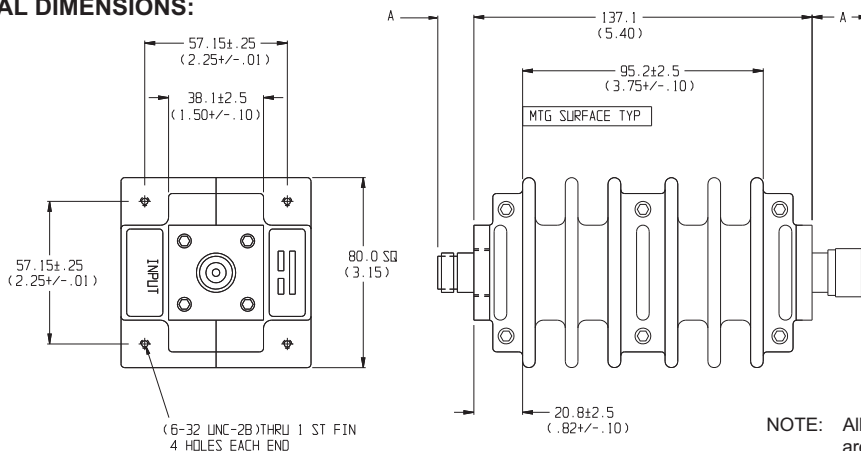
MAXIMUM DEVIATION OVER FREQUENCY:			
Nominal ATTN (dB)	Deviation (dB)		
	40	57	57-LIM
3*	± 0.50	± 1.25	- - -
6, 10	± 0.50	± 1.25	± 1.75
20, 30	± 0.50	± 1.50	± 2.00
40	± 0.50	± 2.00	± 2.00

MAXIMUM SWR:		
Frequency (GHz)	Input	Output
dc - 2 (1.5*)	1.10	1.20 (1.10*)
2 - 5	1.15	1.20

* Model 40 only!

3rd ORDER INTERMODULATION (57-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 6, 10, 20, 30, 40 dB.

PHYSICAL DIMENSIONS:



Connector	DIM A
N Male	22.9 (0.90)
N Female	15.0 (0.59)

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

POWER RATING (mounted horizontally with fins vertical): 150 watts average (unidirectional) to 55°C ambient temperature, derated linearly to 10% @ 125°C. Note: 3 dB model can handle 300 Watts average (unidirectional). 10 kilowatt peak (5 μsec pulse width; 0.75% duty cycle). Maximum power rating into output port is 20 watts average.

POWER COEFFICIENT: <0.0001 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, 1, 2, 3, 4, and 5 GHz (Model 40 at 0.05 and 1.5 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.

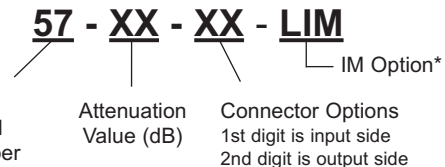
Connector Options	Type/Description
3	Type N, Female
4	Type N, Male

CONSTRUCTION: Aluminum alloy body, stainless steel connectors; gold plated beryllium female copper contacts and stainless steel male contacts.

WEIGHT: 1,130 g (2 lbs, 8 oz.) maximum

MODEL NUMBER DESCRIPTION:

Example:



* Add -LIM for Low Intermodulation option. Option only available with Model 57 in 6, 10, 20, 30, 40 dB and is not available through Express.

Fixed Coaxial Attenuators



Model 65 High Power Fixed Coaxial Attenuator

dc to 2.5 GHz
150 Watts

Conduction/Convection Cooled



Features

- /// **Compact Construction** - Lowest size/power ratio.
- /// **Flexible Mounting Position** - The units may be mounted in horizontal (fins up) or vertical position.
- /// **Rugged Construction** - Quality connectors with special high temperature support beads.

Specifications

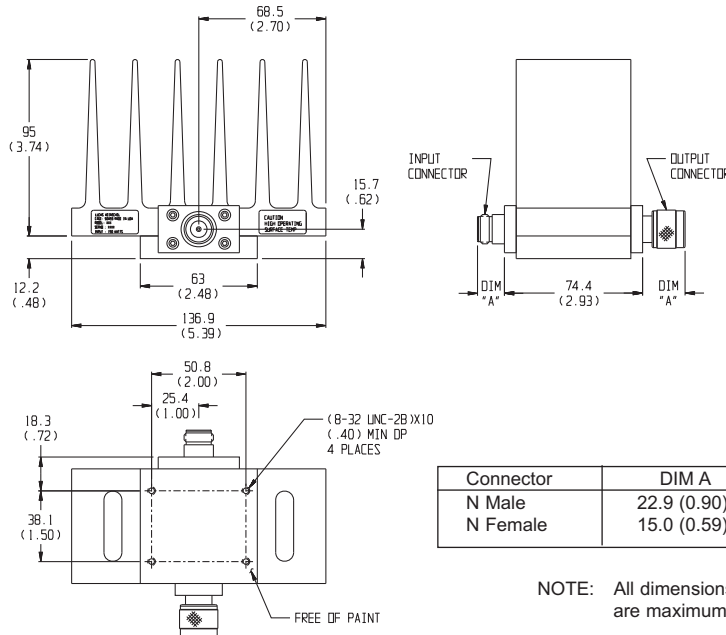
NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 2.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY:	
Nominal ATTN (dB)	Deviation (dB)
3, 6, 10, 20, 30	± 1.00

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 2.5	1.20

PHYSICAL DIMENSIONS:



POWER RATING 150 watts **average (unidirectional)**, 10 kilowatts **peak** (5 μsec pulse width; 0.5 % duty cycle) with case temperature held within **100 °C maximum** with appropriate convection cooling and/or conductive heat sink. Maximum power rating into output port is 20 watts average.

POWER COEFFICIENT: <0.0003 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to 100°C (case temp.)

TEST DATA: Insertion loss test data supplied at 0.05, 0.5, 1.0, 1.5, 2.0 and 2.5 GHz.

CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

Connector Options	Type/Description
3	Type N, Female
4	Type N, Male

CONSTRUCTION: Aluminum alloy body, stainless steel connectors; gold plated beryllium copper contacts.

WEIGHT: 850 g (1 lbs., 14 oz.) maximum

MODEL NUMBER DESCRIPTION:

Example:

