Fixed Coaxial Attenuators

EROFLEX WEINSCHEL

Model 40 Model 57

High Power Fixed Coaxial Attenuator

Type N Connectors

dc to 1.5 GHz dc to 5.0 GHz 150 Watts





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 Deviation (dB)

ATTN (dB) 40 57 57-LIN

ATTN (dB)	40	57	57-LIM
3*	<u>+</u> 0.50	<u>+</u> 1.25	
6, 10	<u>+</u> 0.50	<u>+</u> 1.25	<u>+</u> 1.75
20, 30	<u>+</u> 0.50	<u>+</u> 1.50	<u>+</u> 2.00
40	<u>+</u> 0.50	<u>+</u> 2.00	<u>+</u> 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.

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.

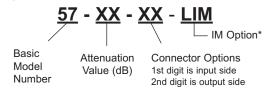
Connector Options	Type/Description	
3	Type N, Female	
4	Type N, Male	

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

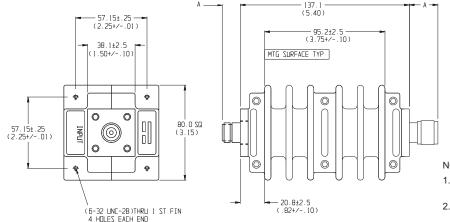
MODEL NUMBER DESCRIPTION:

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.

PHYSICAL DIMENSIONS:



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

Revision Date: 11/28/07

NOTE:

- All dimensions are given in mm (inches) and are maximum, unless otherwise specified.
- 2. Unit available with RoHS compliant materials, specify when ordering.