

Model 40

Model 57

High Power, N or SMK Connectors

Fixed Coaxial Attenuators

dc to 1.5 GHz

dc to 6.0 GHz

150 Watts

✓ RoHS



Features

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

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: Model 40: dc to 1.5 GHz
Model 57: dc to 6.0 GHz

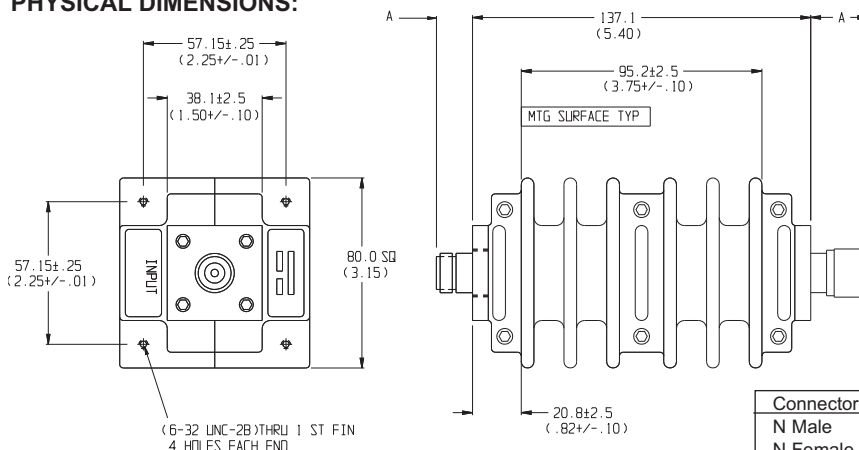
| MAXIMUM DEVIATION OVER FREQUENCY: | | | |
|-----------------------------------|----------------|------------|------------|
| Nominal ATTN (dB) | Deviation (dB) | | |
| | 40 | 57 | 57-LIM |
| 3 | ± 0.50 | ± 1.25 | - - - |
| 6, 10 | ± 0.50 | ± 1.25 | ± 1.75 |
| 20, 30 | ± 0.50 | ± 1.50 | ± 2.00 |
| 40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

| MAXIMUM SWR: | | |
|-----------------|-------|--------|
| Frequency (GHz) | Input | Output |
| dc - 2 (1.5*) | 1.10 | 1.10 |
| 2 - 6 | 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:



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

| Connector | DIM A | Connector | DIM A |
|-----------|-------------|---------------|-------------|
| N Male | 22.9 (0.90) | 2.92mm Male | 14.0 (0.55) |
| N Female | 15.0 (0.59) | 2.92mm Female | 12.7 (0.50) |

POWER RATING (mounted horizontally with fins vertical): 150 watts **average** (unidirectional) to 25°C ambient temperature, derated linearly to 15 watts @ 125°C. 10 kilowatt **peak** (5 μ sec 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: Swept data plots of attenuation and SWR from 50 MHz to 1,5 / 6 GHz.

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 connectors.

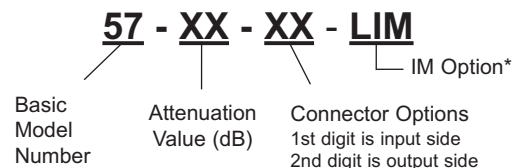
| Options | Description | Options | Description |
|---------|-------------|---------|---------------|
| 1 | SMK Female | 3 | Type N Female |
| 2 | SMK Male | 4 | Type N Male |

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.