

Fixed Coaxial Attenuators Model 40 and Model 57

High Power, N or SMK Connectors

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 6.0 GHz

Maximum Deviation Over Frequency:

Nominal ATTN (dB)	40	Deviation (dB) 40 57 57-LIM		
3	+ 0.50	+ 1.25		
6, 10	± 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	± 0.50	<u>+</u> 2.00	<u>+</u> 2.00	

Maximum SWR:

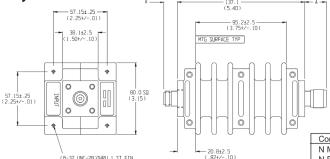
Frequency (GHz)	Input	Output
dc - 2 (1.5*)	1.10	1.10
2 - 6	1.15	1.20

^{*} 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:



☑ RoHS

DC to 1.5 GHz DC to 6.0 GHz 150 Watts



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 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: 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.

OptionsDescriptionOptionsDescription1SMK, Female3Type N, Female2SMK, Male4Type N, Male

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

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





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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: 57 - XX - XX - LIM

Basic Model Attenuation Connector Options:

Number Value (dB) 1st digit is J1 side

2nd digit is J2 side

*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.

dc to 12.4 GHz dc to 18.0 GHz 150 Watts

