



dc to 2.5 GHz 500 Watts

Model 53 High Power Fixed Coaxial Attenuators

Convection Cooled



Features

- Quality connectors with special high temperature support beads.
- Designed to meet environmental requirements of MIL-A-3933.
- Flexible Mounting Position The units may be mounted in horizontal (fins up) or vertical position.
- // Low Intermodulation Distortion Option.

Specifications

NOMINAL IMPEDANCE: 50 $\,\Omega$ FREQUENCY RANGE: dc to 2.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY:		
Nominal ATTN (dB)	Deviation (dB)	
	53	53 LIM
3	<u>+</u> 0.50	
6	<u>+</u> 1.00	
10	<u>+</u> 1.00	<u>+</u> 1.20
20, 30, 40	<u>+</u> 0.50	<u>+</u> 1.20
MAXIMUM SWR:		

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Frequency (GHz)	53	53 LIM
dc - 2.5	1.10	1.15

3rd ORDER INTERMODULATION (53-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.

POWER RATING (mounted horizontally with fins vertical): 500 watts average (unidirectional) to 35° C ambient temperature, derated linearly to 50 watts @ 125° C. 10 kilowatt peak (5 µsec pulse width; 2.5% duty cycle). Maximum power rating into output port is 50 watts average. Note: 3 dB units are rated for 750 Watts average (unidirectional) into the input and 250 Watts average (maximum) into the output port.

POWER COEFFICIENT: <0.0001 dB/dB/watt
TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to 125°C

CALIBRATION: Insertion loss test data supplied at 0.05, 2.5 GHz. Other test data can be provided at additional cost.

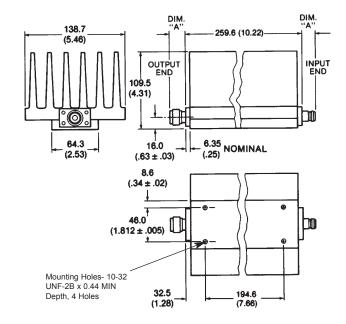
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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

CONSTRUCTION: Aluminum alloy body, gold plated beryllium copper contacts.

WEIGHT: 3,640 g (8 lbs.) maximum

PHYSICAL DIMENSIONS:

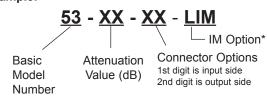


Connector	DIM A
N Male	22.9 (0.90)
N Female	15.0 (0.59)

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

MODEL NUMBER DESCRIPTION:

Example:



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