

Fixed Coaxial Attenuators



Model 53 High Power Fixed Coaxial Attenuator

dc to 2.5 GHz
500 Watts

Conduction/Convection Cooled



Features

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

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 2.5 GHz

MAXIMUM DEVIATION OVER FREQUENCY:		
Nominal ATTN (dB)	Deviation (dB)	
	53	53 LIM
3, 6	± 1.00	---
10, 20, 30, 40	± 1.00	± 1.20

MAXIMUM SWR:		
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 45 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

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

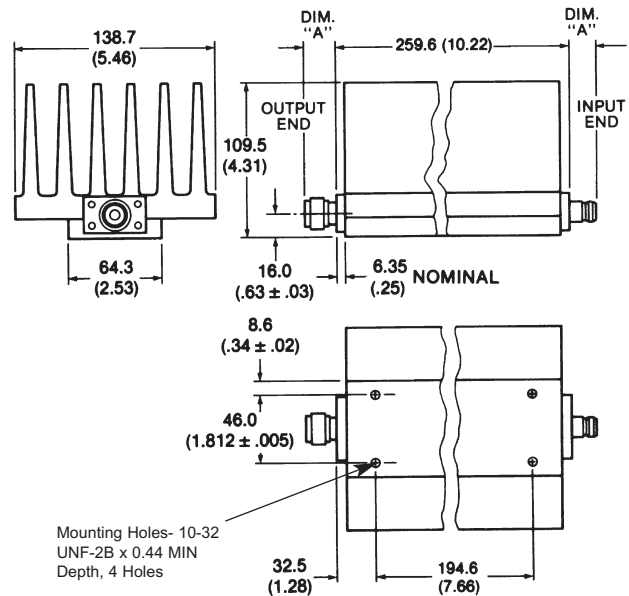
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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:



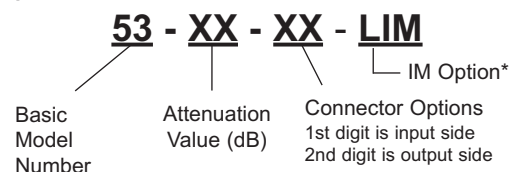
Mounting Holes- 10-32 UNF-2B x 0.44 MIN Depth, 4 Holes

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.