

Fixed Coaxial Attenuators Model 47 Medium Power. N or 3.5mm Connectors

DC to 18.0 GHz 50 Watts



Features

- // Designed to meet environmental requirements of MIL-DTL-3933.
- // Rugged injection molded connectors.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: DC to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:				
Nominal ATTN (dB)	Deviation (dB)			
3, 6	<u>+</u> 0.75			
10, 20	<u>+</u> 0.75			
30, 40	<u>+</u> 1.00			

MAXIMUM SWR:							
Frequency (GHz)	3, 6 dB	10, 20, 30, 40 dB					
dc - 8	1.25	1.20					
8 -12.4	1.35	1.25					
12.4 - 18	1.45	1.35					

POWER RATING (mounted horizontally): 50 watts average (unidirectional) to 25°C ambient temperature, derated linearly to 5 watts @ 125°C. Note: 3 dB model can handle 100 Watts average (unidirectional). 1 kilowatt peak (5 μsec pulse width; 2.5% duty cycle). Maximum power rating into output port is 10 Watts average.

POWER COEFFICIENT: <0.0003 dB/dB/watt
TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C
TEMPERATURE RANGE: -55°C to 125°C

3rd Order Intermodulation

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.

☑ RoHS

TEST DATA: Swept data plots of attenuation and SWR from 50 MHz to 18 GHz.

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

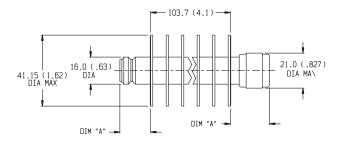
3.5mm Connectors - mate nondestructively with SMA per MIL-C-39012, 2.92mm and other 3.5mm connectors.

Options	<u>Description</u>	<u>Options</u>	<u>Description</u>
1	3.5mm Female	3	Type N Female
2	3.5mm Male	4	Type N Male

CONSTRUCTION: Black, finned aluminum body, stainless steel connectors with gold plated beryllium copper contacts.

WEIGHT: 175 g (6 oz.) maximum

PHYSICAL DIMENSIONS:



Connector	DIM A	Connector	DIM A
N Male	24.1 (0.95)	3.5mm Female	14.0 (0.55)
N Female	19.0 (0.75)	3.5mm Male	13.2 (0.52)

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

Model Number Description

Example: 47 - 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.