

Model 46 Medium Power Fixed Coaxial Attenuators



dc to 18.0 GHz 25 Watts

Bi-directional Design



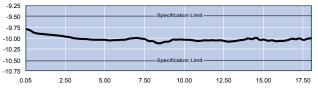


- Designed to meet environmental requirements of //, MIL-A-3933.
- Rugged injection molded connector dielectric. //,
- Low Intermodulation option available. //,

Specifications

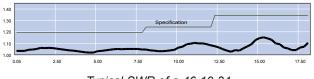
NOMINAL IMPEDANCE: 50 Ω FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:						
Nominal	46	46 LIM				
ATTN (dB)		dc-8 GHz	8-18 GHz			
3, 6	<u>+</u> 0.50					
10	<u>+</u> 0.50	<u>+</u> 0.50	+1.0/-0.0			
20	<u>+</u> 0.75	<u>+</u> 0.50	+1.0/-0.0			
30, 40	<u>+</u> 1.00	<u>+</u> 0.50	+1.0/-0.0			



Typical Attenuation Accuracy of a 46-10-34

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 8	1.20
8 -12.4	1.25
12.4 - 18	1.35



Typical SWR of a 46-10-34

3rd ORDER INTERMODULATION (46-XX-XX-LIM ONLY): Reflected Levels (IM3), -100 dBc and Through Levels (IM3), -110 dBc with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +41 dBm each. Option only available 10, 20, 30, 40 dB.

POWER RATING (mounted horizontally): 25 watts average (bi-directional) to 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C. Note: 3 dB model can handle 50 Watts average (bi-directional). 1 kilowatt peak (5 usec pulse width; 1.25% duty cycle).

POWER COEFFICIENT: <0.0006 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. 4.0, 8.0, 12.0, and 18.0 GHz. Other test data can be provided at additional cost.

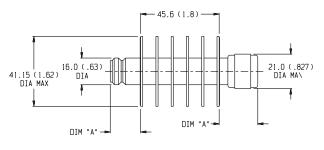
CONNECTORS: CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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

<u>Options</u>	Description	Options	Description
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: 110 g (4 oz.) maximum

PHYSICAL DIMENSIONS:



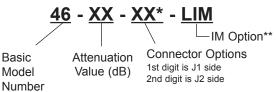
Connector	DIM A	Connector	DIM A
N Male	24.1 (0.95)	3.5mm Female	14.0 (0.55)
N Female	19.0 (0.75)	3.5mm Male	13.2 (0.52)

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

MODEL NUMBER DESCRIPTION:

Example:

Basic



* Unit is bi-directional & full power may be applied to either J1 or J2. ** Add -LIM for Low Intermodulation option. Option only available in 10, 20, 30 and 40 dB and is not available through Express.

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