

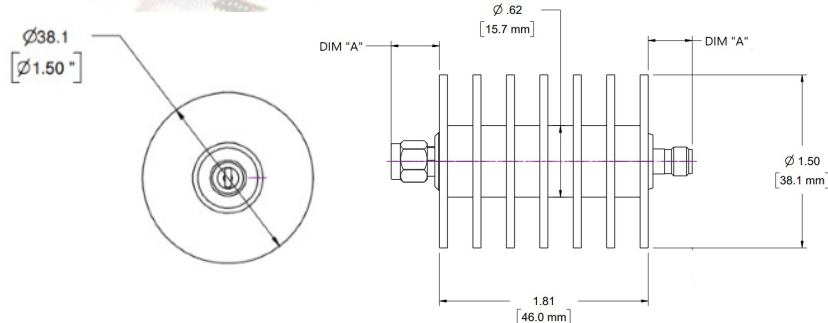
# Fixed Coaxial Attenuator

# WA46

**WA46/12: DC – 12.4 GHz**

**WA46: DC – 18 GHz**

**25 WATTS**



## Features

Type N, SMA, or TNC stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-3933 environmental specification.

## Specifications

**Nominal Impedance:** 50 ohms.

**Frequency Range:** WA46/12: DC - 12.4 GHz.  
WA46: DC - 18 GHz.

**Nominal dB Values:** 3 - 40 dB

**Power Coefficient:** < 0.0006 dB/dB/W;  
Bidirectional in power.

**Power Rating:** 25 W maximum average rated power to 25°C ambient temperature, de-rated linearly to 2.5 W at 125°C. 1 kW peak power (5 µsec pulse width, 1.25% duty cycle).

**Temperature Range:** -55°C to +125°C.

**Temperature Coefficient:** <0.0004 dB/dB/°C.

**Construction:** Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper or stainless steel contacts. RoHS Compliant.

**Calibration:** Insertion Loss and VSWR performed across frequency range. Calibration test data available at additional cost.

## Standard Nominal Values and Deviations:

Attenuation (dB)	Accuracy ± dB	
	WA46/12	WA46
3 - 10	0.5	0.5
11 - 20	0.75	0.75
21 - 40	1.0	1.0

## Maximum VSWR:

Frequency (GHz)	VSWR	
	WA46/12	WA46
DC - 8.0	1.2	1.2
8.0 - 12.4	1.25	1.25
12.4 - 18	N/A	1.35

## Dimensions:

Connector Type (- code)	Length Dimension 'A'
	SMA F -01
SMA M -02	10.9 (.43)
N-Type F -03	14.9 (.59)
N-Type M -04	22.7 (.89)
TNC F -05	14.4 (.57)
TNC M -06	17.7 (.70)

**Weight:** 0.11 (3.9)  
**Diameter:** 38.1 (1.5)

*Note: Dimensions are given in mm (in), or kg (oz). Weight figure is nominal, with our standard connector configuration. Additional connector options may be available.*

**Low Intermodulation Option:** Add -LIM after connector option to specify low intermodulation.