

# Fixed Coaxial Attenuator

# WA47

DC – 18 GHz

50 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:** DC - 18 GHz.

**Nominal dB Values:** Standard dB values of 3, 6, 10, 20, 30 and 40. Custom dB values available at an additional charge

**Power Coefficient:** < 0.0003 dB/dB/W;  
Unidirectional in power.

**Power Rating:** 50 W maximum average rated power to 25°C ambient temperature, de-rated linearly to 5 W at 125°C. 1 kW peak power (5 µsec pulse width, 2.5% 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.

## Standard Nominal Values and Deviations:

Attenuation (dB)	Accuracy ± dB
	WA47
3, 6, 10, 20, 30	1.00
40	1.20

## Maximum VSWR:

Frequency (GHz)	VSWR	
	WA47 3, 6 dB	WA47 10-40 dB
DC - 8.0	1.25	1.20
8.0 - 12.4	1.35	1.25
12.4 - 18	1.45	1.35

## Dimensions:

**Weight:** 0.21 (7.4)

**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.*

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

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