

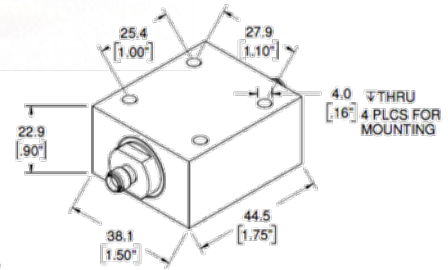
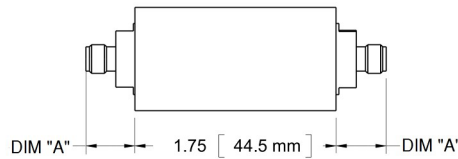
# Fixed Coaxial Attenuator

# WA21 & WA22



**WA21: DC – 4 GHz**  
**WA22: DC – 8.5 GHz**

**25 WATTS**



## Features

*Low-profile, mountable attenuator.*  
 Type N, TNC and SMA stainless steel connectors per MIL-STD-348A, interface non-destructively with MIL-PRF-39012. Designed to meet MIL-DTL-3933 environmental specification.

## Specifications

**Nominal Impedance:** 50 ohms.

**Frequency Range:** WA21: DC - 4 GHz.  
 WA22: DC - 8.5 GHz.

**Nominal dB Values:** WA21: 1 - 40 dB  
 WA22: 1 - 30 dB

**Power Coefficient:** < 0.005 dB/dB/W;  
 Bidirectional in power.

**Power Rating:** **25 W** average with case temperature held to 100°C using conductive heat sink. **5 kW** peak (5 µsec pulse width, 0.25% 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 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	
	WA21	WA22
1 - 2	0.4	0.8
3 - 20	0.3	0.6
21 - 30	0.6	1.0
31 - 40	0.8	1.5

## Maximum VSWR:

Frequency (GHz)	VSWR	
	WA21	WA22
DC - 4.0	1.2	1.2
4.0 - 8.5	N/A	1.3

## 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:** 170 (6.0)  
**Height:** 22.9 (0.9)  
**Width:** 38.1 (1.5)

*Note: Dimensions are given in mm (in), or g (oz). Weight figure is nominal, with our standard connector configuration.*

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