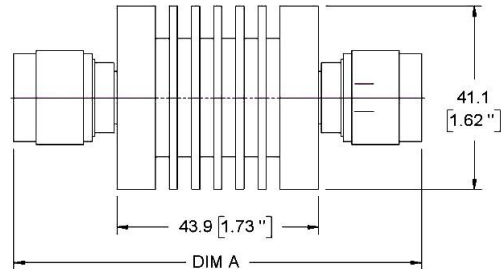


# Fixed Coaxial Attenuator

# MODEL WA33

DC – 8.5 GHz

25 WATTS



## Features

Designed to meet environmental requirements of MIL-DTL-3933.

- Low Intermodulation option available on 10, 20, 30, and 40dB.

## Specifications

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC - 8.5 GHz.

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

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

**Power Rating:** 25 watts average to 25°C ambient temperature, derated linearly to 2.5 watts at 125°C. 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle).

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

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

**Standard Nominal Values and Deviations:**

Atten. (dB)	Accuracy ± dB			
	DC - 4.0 GHz		4.0 - 8.5 GHz	
	WA33	WA33-LIM	WA33	WA33-LIM
3,6	0.3	--	0.6	--
10,20	0.3	0.4	0.6	0.7
30	0.6	0.7	1.0	1.20
40	0.8	1.0	1.5	1.30

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

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

**Maximum VSWR:**

Frequency (GHz)	VSWR
DC - 4.0	1.20
4.0 – 8.5	1.30

**Connectors:** Type N, SMA, or DIN 7/16 stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Add -LIM after connector option for Low Intermodulation option. Example: WA33-XX-XX-LIM

**Weight:**

Type N	.17 kg / 6 oz.
DIN 7/16	.18 kg / 7 oz.

**Physical Dimensions:**

Connector Type	DIM "A"
Type N	81.03 (3.19)
DIN 7/16	106.68 (4.80)
SMA	71.12 (2.80)

**Length:**

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified



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