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## Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

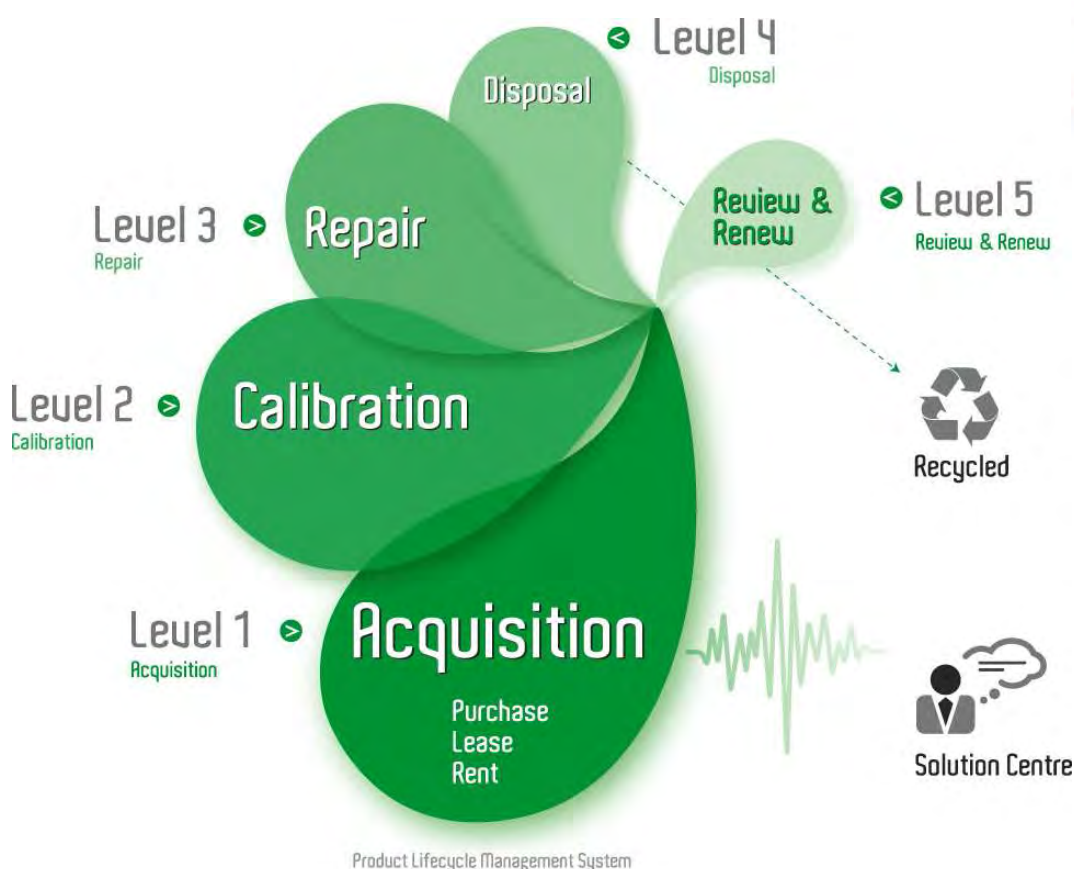
TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



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# Fixed Coaxial Attenuator MODEL WA1W & WA2W

DC – 6.0 GHz  
DC – 12.4 GHz  
DC – 18.0 GHz

2 WATTS

## Features

Type N 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:** WA1W/6: DC - 6.0 GHz.  
WA1W/12: DC - 12.4 GHz.  
WA2W: DC -18.0 GHz.

**Nominal dB Values:** 1 - 60 dB.

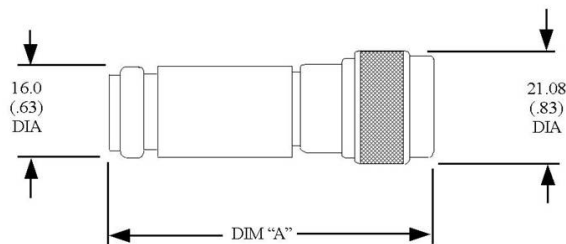
**Power Sensitivity:** < 0.005 dB/dB/W Bidirectional in power.

**Power Rating:** 2 watts average. Maximum rated average power to 25°C ambient temperature, derated linearly to 0.5 watts @ 105 C. 250 watts peak (5 µsec pulse width; 0.4% duty cycle).

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

**Standard Nominal Values and Deviations:**

| Attenuation (dB) | Accuracy ± dB |         |         |
|------------------|---------------|---------|---------|
|                  | WA1W/6        | WA1W/12 | WA2W/18 |
| 1, 2             | 0.4           | 0.4     | 0.5     |
| 3-9              | 0.3           | 0.3     | 0.3     |
| 10, 20           | 0.5           | 0.5     | 0.5     |
| 30, 40           | 0.75          | 0.75    | 1.00    |
| 50               | 0.75          | 0.75    | 1.25    |
| 60               | 1.0           | 1.0     | 1.50    |



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

**Construction:** Passivated stainless steel body and connectors. Gold plated beryllium copper female contact, passivated stainless steel male contact..

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

**Maximum VSWR:**

| Frequency (GHz) | VSWR   |         |         |
|-----------------|--------|---------|---------|
|                 | WA1W/6 | WA1W/12 | WA2W/18 |
| DC - 4.0        | 1.15   | 1.15    | 1.15    |
| 4.0 - 8.0       | 1.20   | 1.20    | 1.20    |
| 8.0 -12.4       | N/A    | 1.25    | 1.25    |
| 12.4-18.0       | N/A    | N/A     | 1.40    |

**Weight (All Models):**

1-30 dB .07 kg/ 2.6 oz.  
31-60 dB .10 kg/ 3.6 oz.

**Physical Dimensions:**

| Attenuation (dB) | Dim "A"      |
|------------------|--------------|
| 1 – 30           | 50.8 (2.00)  |
| 31-60            | 64.77 (2.55) |

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



## WEINSCHEL ASSOCIATES

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