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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.

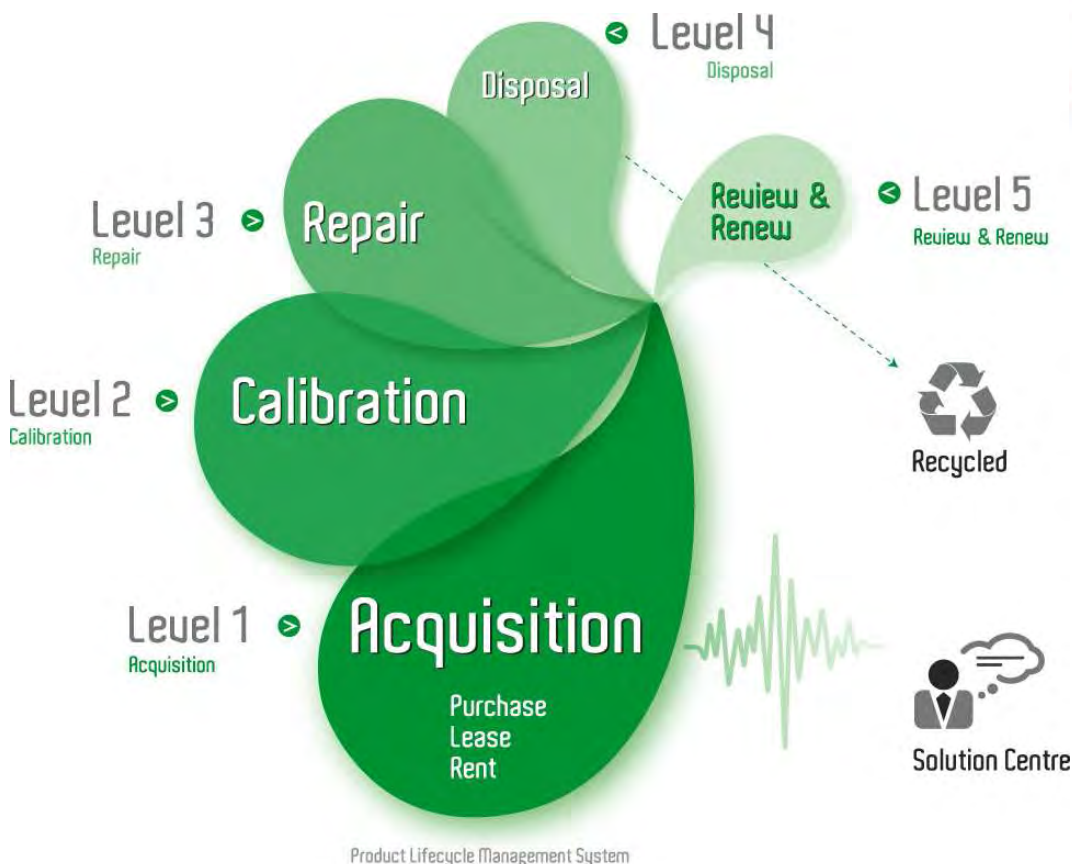
TMG will assist if you are unsure whether this model will suit your requirements.

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



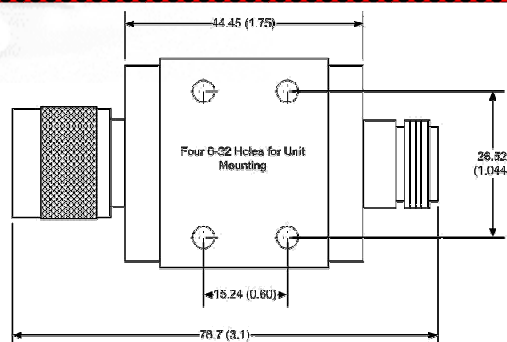
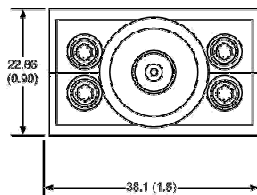
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# Fixed Coaxial Attenuator Model WA21 & WA22 Low-Profile Mountable

DC – 4.0 GHz WA21  
DC – 8.5 GHz WA22

25 Watts  
25 Watts



## Features

Designed to meet environmental requirements of MIL-DTL-3933. Conductive Cooling. Flat base with mounting holes

## Specifications

**Nominal Impedance:** 50 ohms.

**Frequency Range:** WA21 DC - 4.0 GHz.  
WA22 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, 5 kilowatt peak (5 µsec pulse width; 1.5% duty cycle) with case temperature held to +100°C maximum using conductive heat sink.

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

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

**Standard Nominal Values and Deviations:**

Attenuation (dB)	Accuracy ± dB			
	DC - 4.0 GHz		4.0 - 8.5 GHz	
	WA21	WA22	WA21	WA22
3,6	0.3	0.3	--	0.60
10,20	0.3	0.3	--	0.60
30	0.6	0.6	--	1.00
40	0.8	0.8	--	1.50

**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	1.2
4.0 – 8.5	1.3

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

Add -LIM after connector option for Low Intermediation option. Example: WA21-XX-XX-LIM

**Weight:**

Type N .17 kg/ 6 oz.

**Physical Dimensions:**

**Length:**

Connector Type	DIM "A"
Type N	78.7 (3.1)
SMA	71.1 (2.8)

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



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