

### Manual Step Attenuator

- ◆ DC to 3GHz
- ◆ 0 to 24dB in 2dB Step
- ◆ 2 Watt
- ◆ Connector Type:SMA,N,TNC,F,BNC etc. available.



### Features

- Using advanced microstrip technology, ultra-small size
- Attenuation values are adjustable in a power-on state, no sudden big reflection.  
It adopts an innovative technology, and thus it eliminates sudden big reflection in attenuators when attenuation is being adjusted, preventing the preliminary RF circuit from being burnt, and keeping the system stable
- Step attenuation: 2dB, 4dB, 8dB, 10dB
- 13 attenuation values
- High attenuation accuracy, low insertion loss
- High adjustment accuracy
- Low cost – High Performance
- Adjusting the transmitting (receiving) distance of RF signal precisely. Adjusting accuracy is limited to 5cm.
- Switch repeatability avg.> 10000 operations (5000 cycles) per switch.
- PC(Polycarbonate) Switch, operating temperature of 120°C is available.
- Attenuation values are adjustable in a power-on state, test data can be read continuously, no interruption.

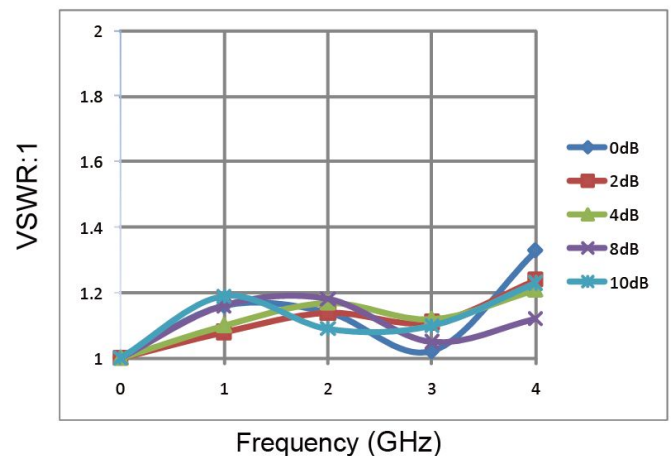
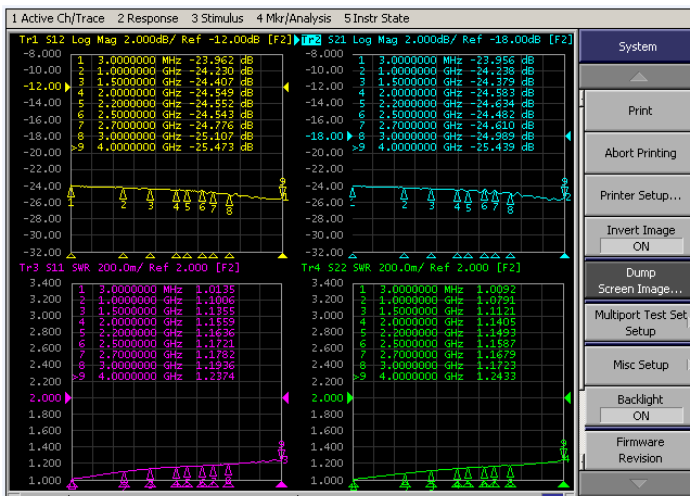
### Specifications

<b>Frequency Range</b>	DC to 3.0GHz
<b>Attenuation</b>	0 to 24dB
<b>Step Value</b>	2dB
<b>Insertion loss at 0dB</b>	
SMA connector	0.30dB at 1 GHz 0.60dB at 2 GHz 0.95dB at 3 GHz
<b>Attenuation Accuracy</b>	
SMA connector	0 to +0.35dB at 1GHz 0 to +0.75dB at 2GHz 0 to +1.45dB at 3GHz
<b>Nominal Impedance</b>	50 Ohm
<b>Average Power</b>	2 Watt
<b>Operating Temperature</b>	-40°C to +85°C

Freq. Range (GHz)	Connector Type	VSWR(:1)	
		Typ.	Max.
DC to 3.0	SMA	1.20	1.35

### Characteristic

For example the testing curves of VAS062402S2\*A of 24dB



Yantel Corporation

Add: 3F, Building 3, Southern District 2 of ZhongGuan Honghualing Industrial Park, Xili, Nanshan, Shenzhen, China  
Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

**Model No. Description**

VAS                      \*\*                        \*\*                        \*\*                        \*                        \*                        \*    
                           Type                    Attenuation Range    Step Value            Connector Type        Max. Power            Connector Option

**VAS:** Step Variable Attenuator

**Type:** 06 represents type number

**Attenuation Range:** Maximum attenuation.

**Connector Type:** S and N available. S is SMA and N is N type connector.

**Max. Power:** 2 and 5 are available, currently 2W and 5W are available.

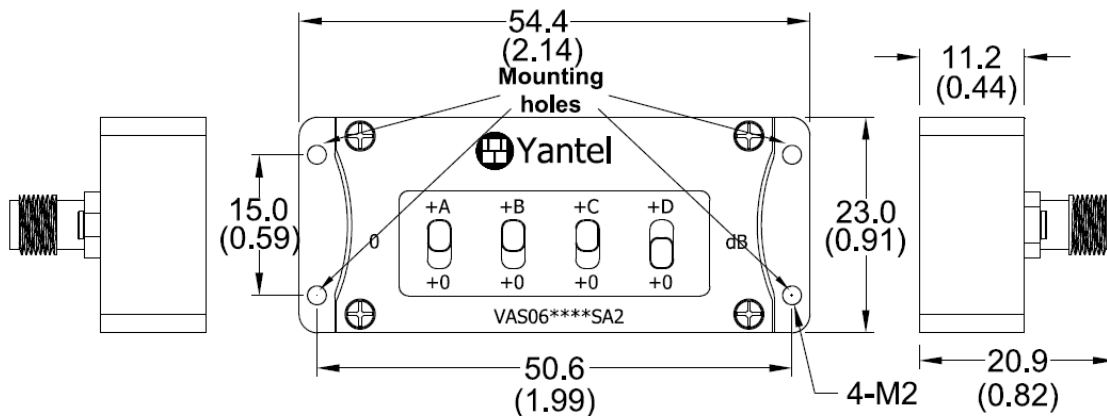
**Connector Options:**

Options	IO
1	Female/Female
2	Male/Female
3	Male/Male

**Package Outlines**

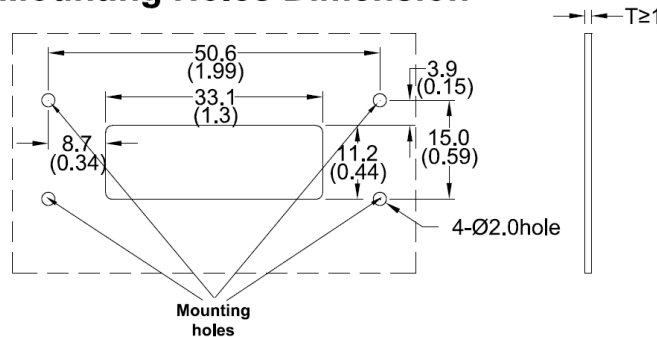
**Connector Position:** "A" represents back connectors, without "A" represents left and right connectors.

**SMA Connector Units:mm(inch)**



**Panel:**

**Mounting Holes Dimension**



**NOTE:**

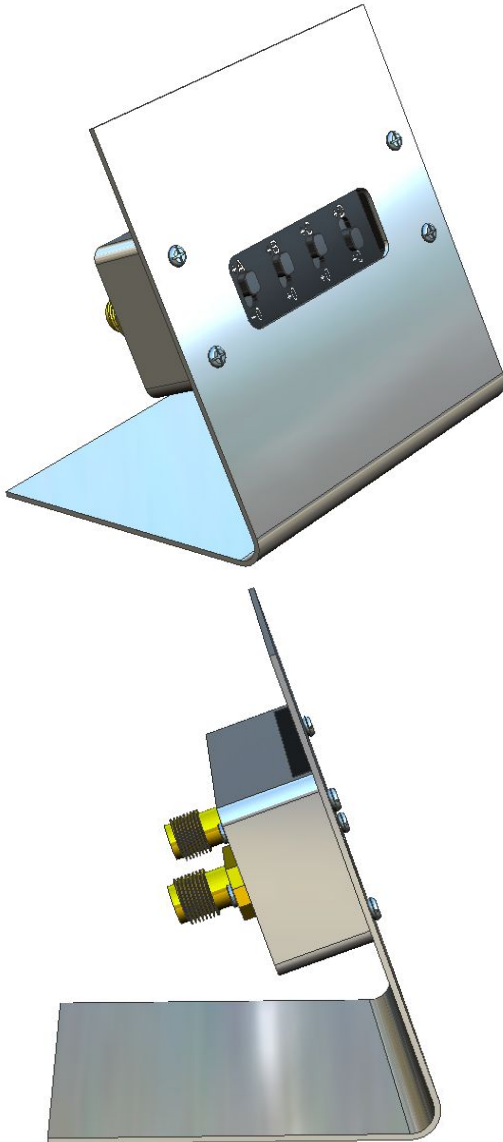
1. ALL dimensions shown in mm (tolerance: +/-0.2mm) unless stated otherwise
2. RoHS Compliant in accordance with EU Directive(2011/65/EU)

**Yantel Corporation**

Add: 3F, Building 3, Southern District 2 of ZhongGuan Honghualing Industrial Park, Xili, Nanshan, Shenzhen, China  
 Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

**Application case:**

**Repeater:** This VAS series can be rack mountable, easier to operate from the rack outside.

**Application****Note:**

Attempt to disassemble the product can damage it and void your warranty. In case of any malfunction, please contact your local representative, distributor or the factory immediately.

---

**Attention**

It is much easier to adjust the switch by tools like plastic screw driver.