

### Manual Step Attenuator

- ◆ DC to 5.8GHz
- ◆ 0 to 35dB in 1dB Step
- ◆ 2 Watt
- ◆ Connector Type: SMA,N,TNC,F,BNC etc. available
- ◆ Low PIM



✓ RoHS

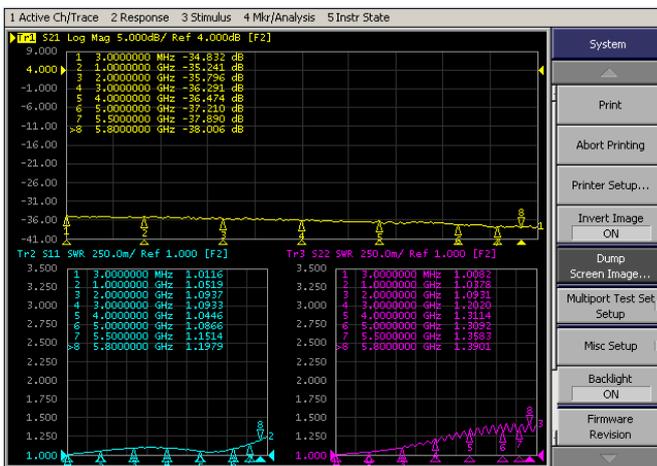


### Features

- 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 values: 1dB, 2dB, 4dB, 8dB,10dB,10dB
- 36 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.

### Characteristic

For example the testing curves of VAS073501S22 of 35dB



### Specifications

<b>Frequency Range</b>	DC to 5.8GHz
<b>Attenuation</b>	0 to 35dB
<b>Step Value</b>	1dB
<b>Insertion loss at 0dB (typ.)</b>	2.2dB DC to 4 GHz
	2.5dB 4 to 5 GHz
	3.5dB 5 to 5.8 GHz

### Attenuation Accuracy (typ.)

0 to +3.00dB DC to 4GHz
0 to +5.00dB 4GHz to 5GHz
0 to +6.00dB 5GHz to 5.8GHz

<b>Nominal Impedance</b>	50 Ohm
<b>Average Power</b>	2 Watt
<b>Operating Temperature</b>	-40°C to +85°C

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 4	1.15	1.45
4 to 5.8	1.35	1.60

### 3rd Order Intermodulation

Two Input Signals	Reflected IM3
925MHz & 960MHz	-115dBc @ 2x33dBm
1805MHz & 1880MHz	-115dBc @ 2x33dBm
2620MHz & 2695MHz	-115dBc @ 2x33dBm

### Model No. Description

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

**VAS:** Step Variable Attenuator

**Type:** 07 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.

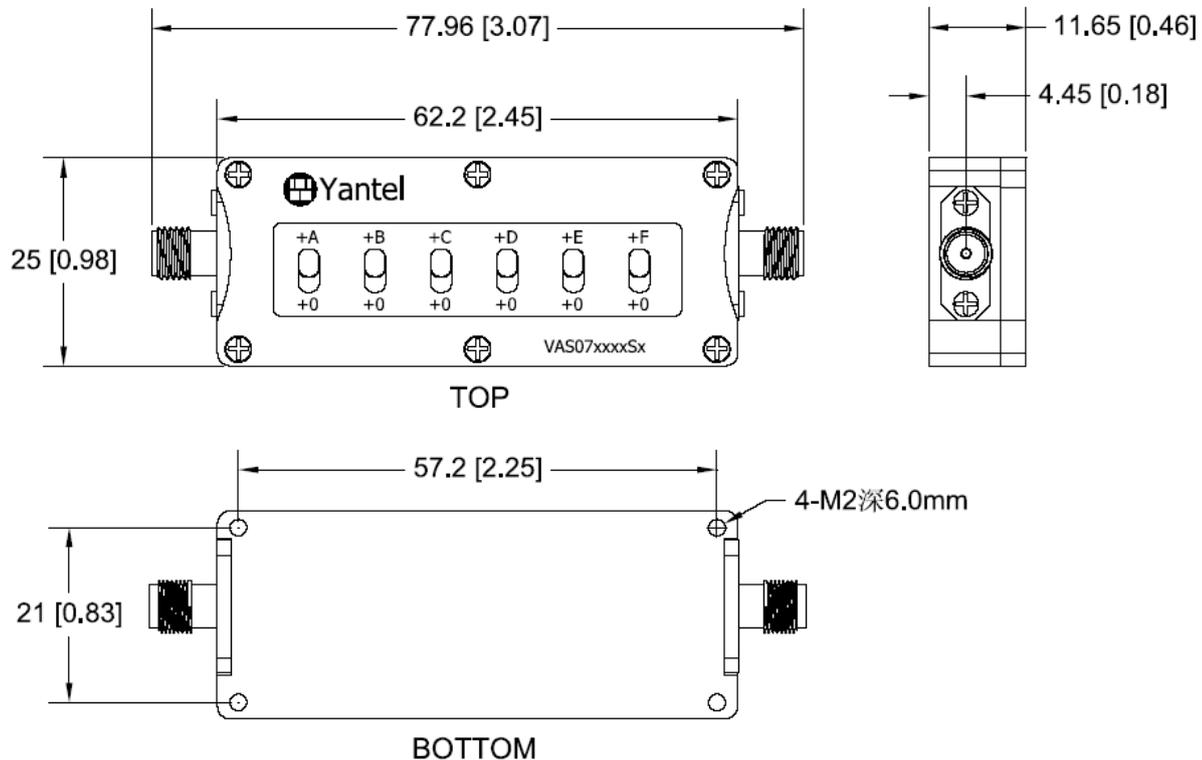
**Connector Options:**

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

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

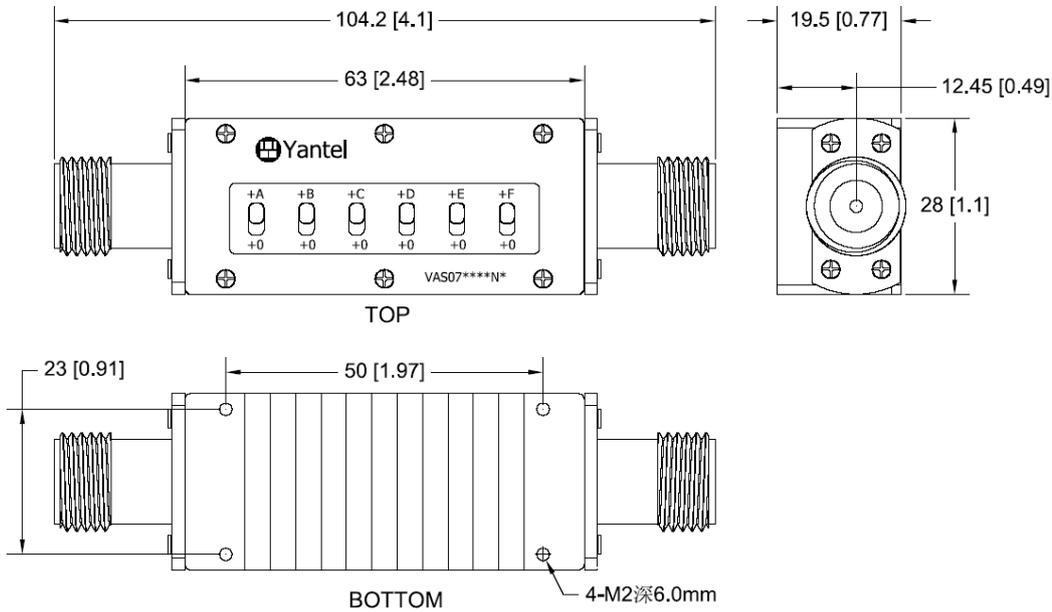
### Package Outlines

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



**Package type: S21**

### N-type Connector

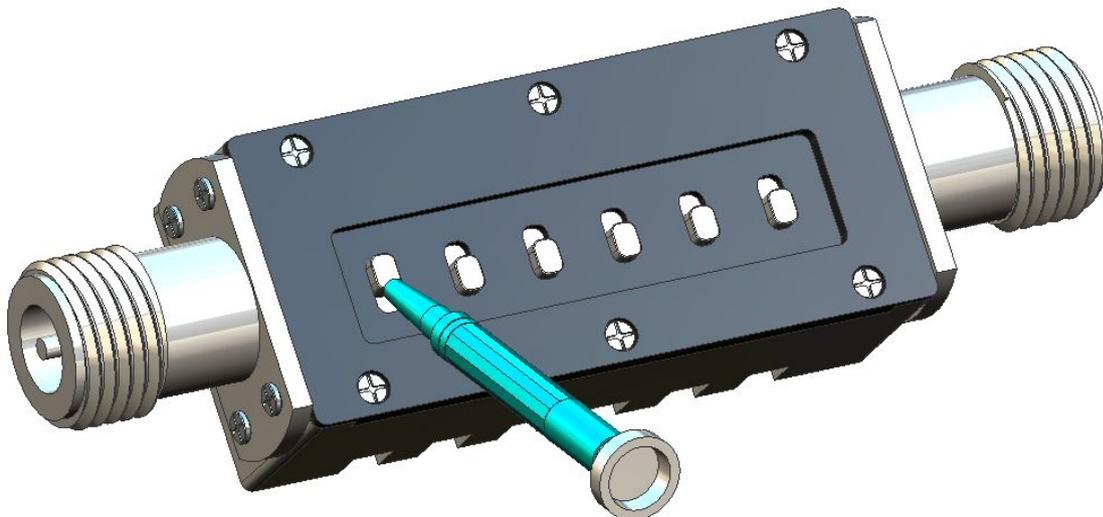


Package type: N21

**NOTE:**

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

### Attention

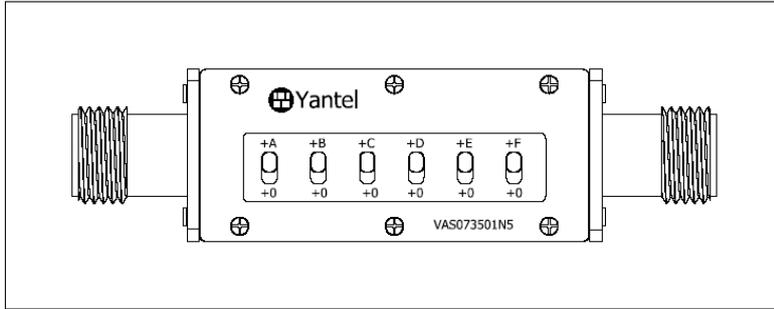


It is much easier to adjust the switch by tools like plastic screw driver.

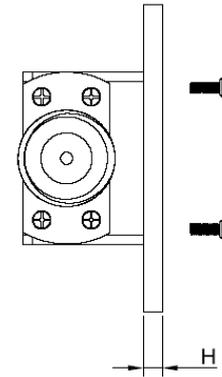
**Mounting Instructions:** Unit: mm(inch)

This product is panel-mountable via screws.

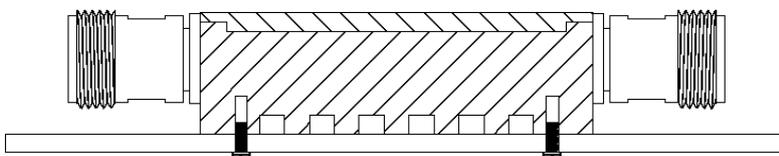
- Four mounting holes on the product plate. Refer to Fig2, Fig6.
- H represents the thickness of panel. Refer to Fig3, Fig4.
- Recommended length of the screw is 3mm+H. Refer to Fig5.



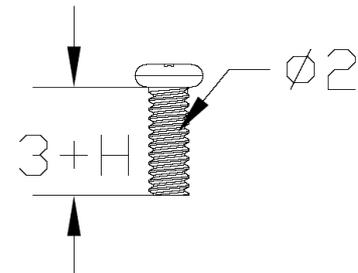
**Front View Fig 2**



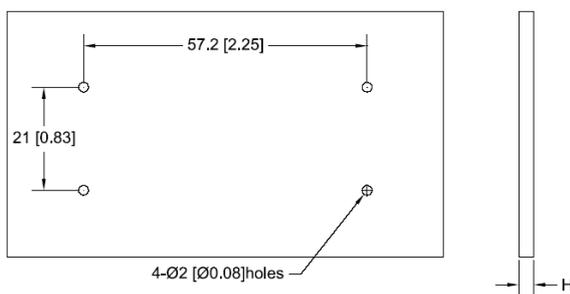
**Lateral View Fig 3**



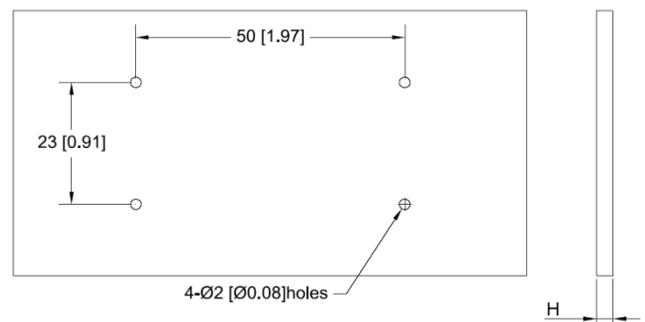
**Sectional View Fig 4**



**Recommended length of the screw Fig 5**



**SMA**



**N-type**

**Mounting holes on user's panel Fig 6**

**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.