

### Manual Step Attenuator

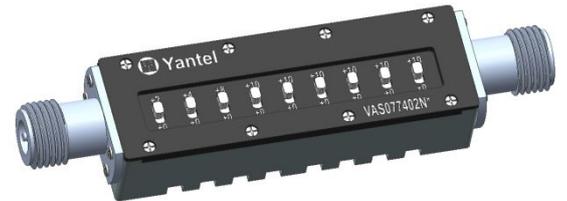
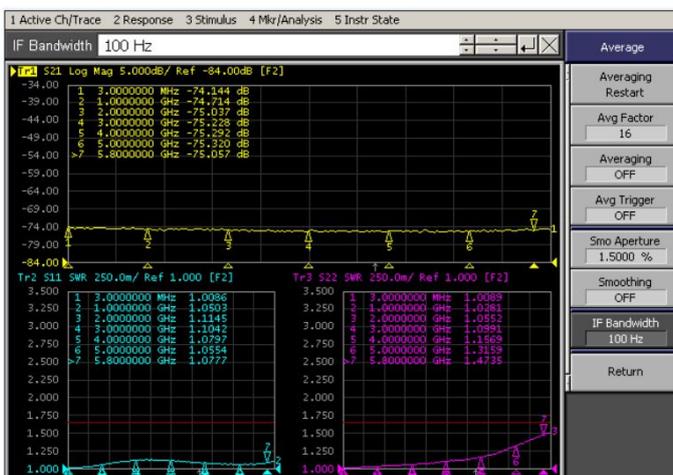
- ◆ DC to 5.8GHz
- ◆ 0 to 74 in 2dB Step
- ◆ 2 Watt
- ◆ Connector Type: SMA,N,TNC,F,BNC etc. available

### 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 values 2dB, 4dB, 8dB, 10dB,10dB,10dB,10dB,10dB, 10dB
- 38 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 VAS077402S2 of 74dB



### Specifications

Frequency Range	DC to 5.8GHz
Attenuation	0 to 74dB
Step Value	2dB
Insertion loss at 0dB (typ.)	3.0dB in DC to 4GHz 4.6dB in 4GHz to 5GHz 5.5dB in 5GHz to 5.8GHz

### Attenuation Accuracy (typ.)

0dB~3.5dB in DC to 4GHz
-0.5dB~5.5dB in 4GHz to 5GHz
-2.0dB~7.0dB in 5GHz to 5.8GHz

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

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 4	1.1	1.35
4 to 5.8	1.25	1.60

### 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.

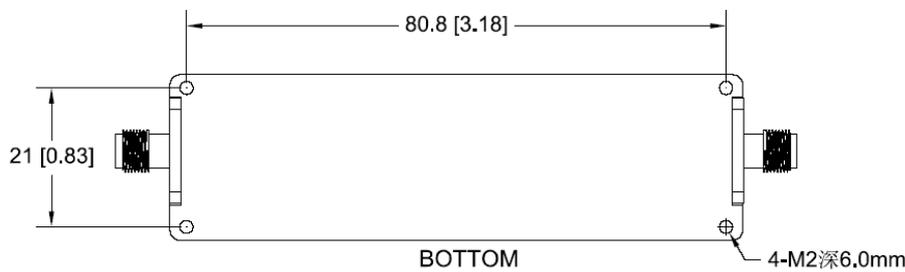
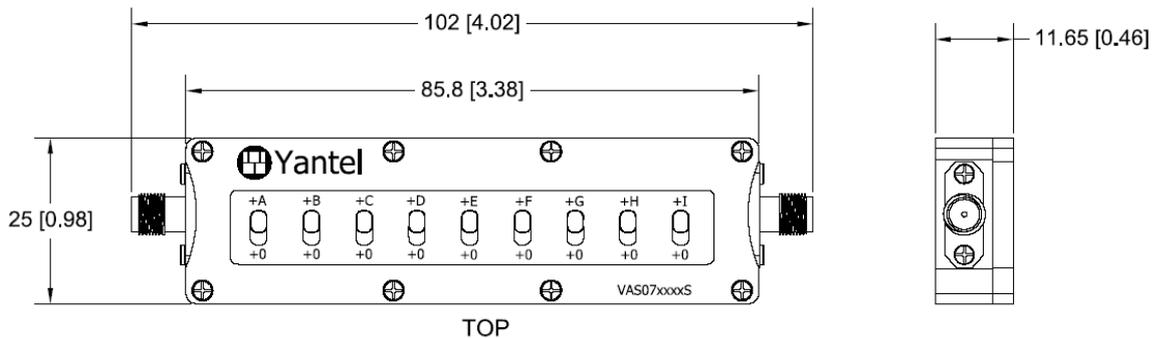
### Connector Options:

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

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

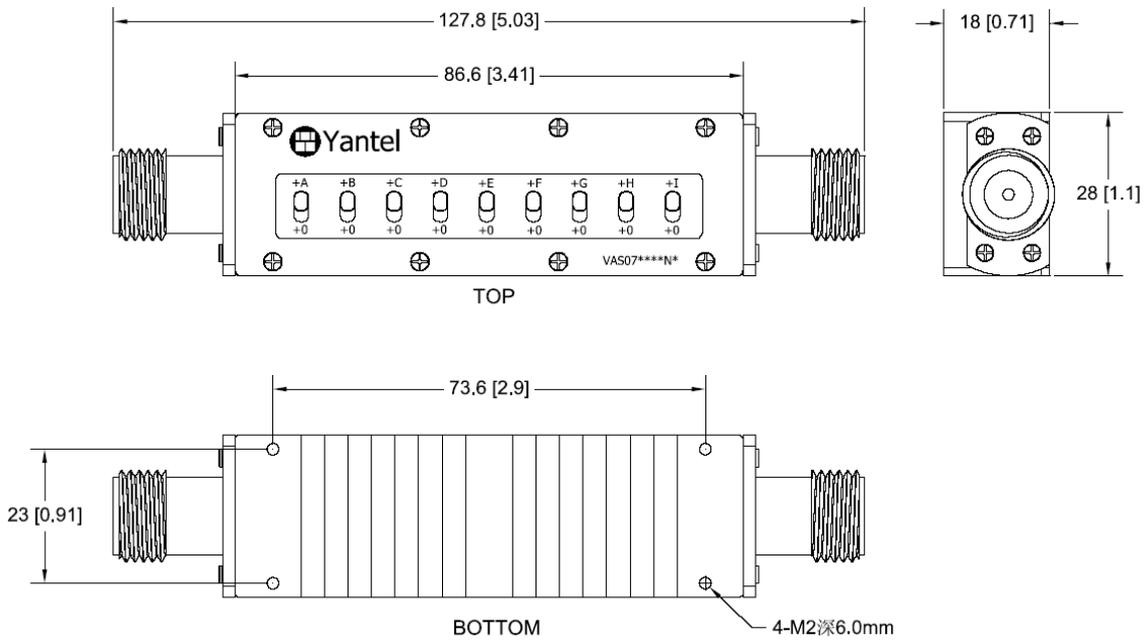
### Package Outlines

**S-type Connector                      Unit:mm(inch)**



**Package type: S21**

**N-type Connector**

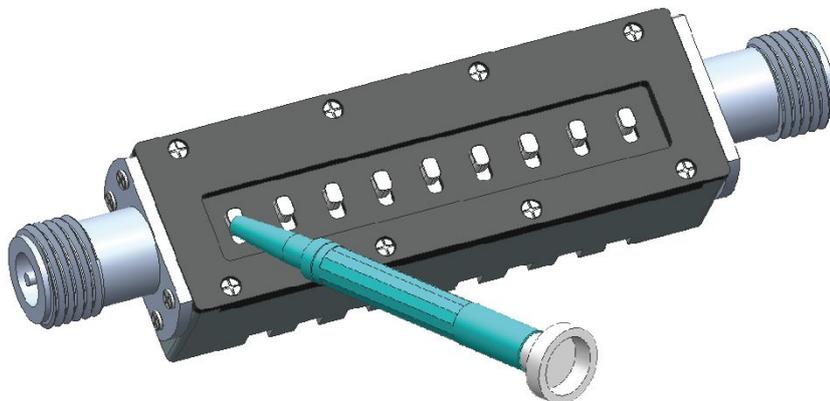


**Package type: N21**

**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**

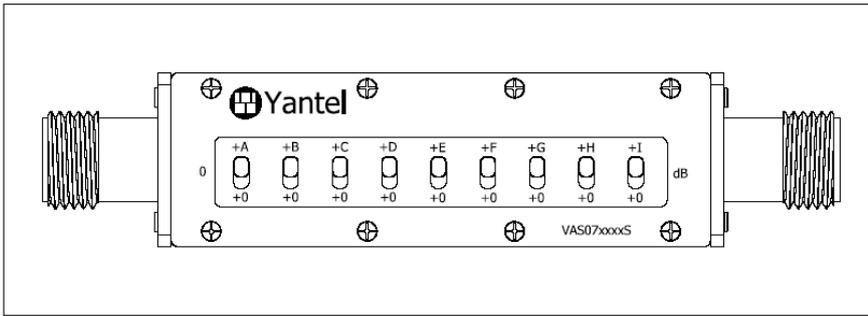


It is much easier to adjust the switch by tools like plastic screw driver.

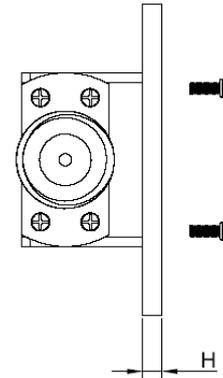
**Mounting Instructions:** Unit: mm(inch)

This product is panel-mountable via screws.

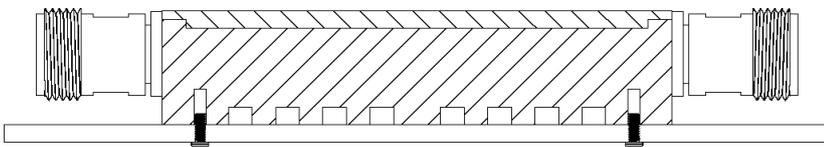
- Four mounting holes on the product plate. Refer to Fig2, Fig6.
- H represents the thickness of panel. Refer to Fig3, Fig4.
- Recommended length of the screw is 3mm+H. Refer to Fig5.



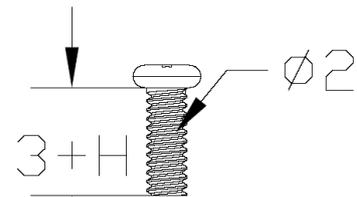
**Front View Fig 2**



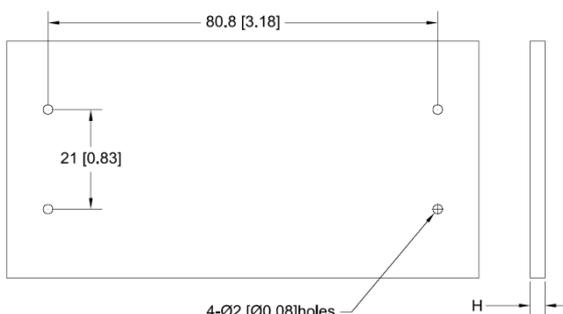
**Lateral View Fig 3**



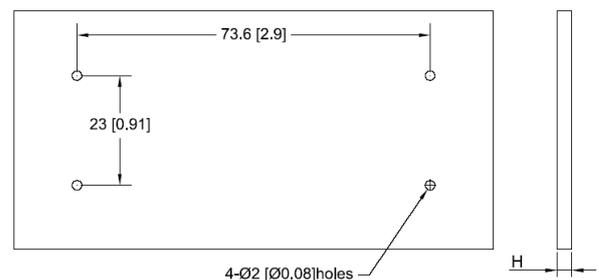
**Sectional View Fig 4**



**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.