

### Manual Step Attenuator

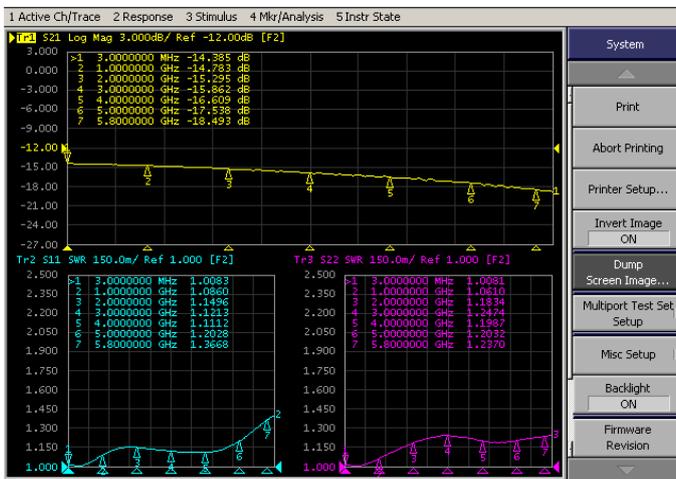
- ◆ DC to 5.8GHz
- ◆ 0 to 15dB in 1dB Step
- ◆ 5 Watt
- ◆ Connector Type: SMA,N,TNC,F,BNC etc. available
- ◆ Low PIM

### 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
- 16 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 VAS071501N51 of 15dB



### Specifications

<b>Frequency Range</b>	DC to 5.8GHz
<b>Attenuation</b>	0 to 15dB
<b>Step Value</b>	1dB
<b>Insertion loss at 0dB (typ.)</b>	1.2dB DC to 4 GHz 1.5dB 4 to 5 GHz 2dB 5 to 5.8 GHz
<b>Attenuation Accuracy (typ.)</b>	-1.0dB~2.0dB in DC to 4 GHz 0dB~+3dB in 4 to 5 GHz 0dB~+5dB in 5 to 5.8 GHz

<b>Nominal Impedance</b>	50 Ohm
<b>Average Power</b>	5 Watt
<b>Operating Temperature</b>	-40°C to +85°C

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 4	1.2	1.4
4 to 5.8	1.3	1.65

### 3rd Order Intermodulation

Two Input Signals	Reflected IM3
925MHz & 960MHz	-115dBc @ 2x37dBm
1805MHz & 1880MHz	-115dBc @ 2x37dBm
2620MHz & 2695MHz	-115dBc @ 2x37dBm

### 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.

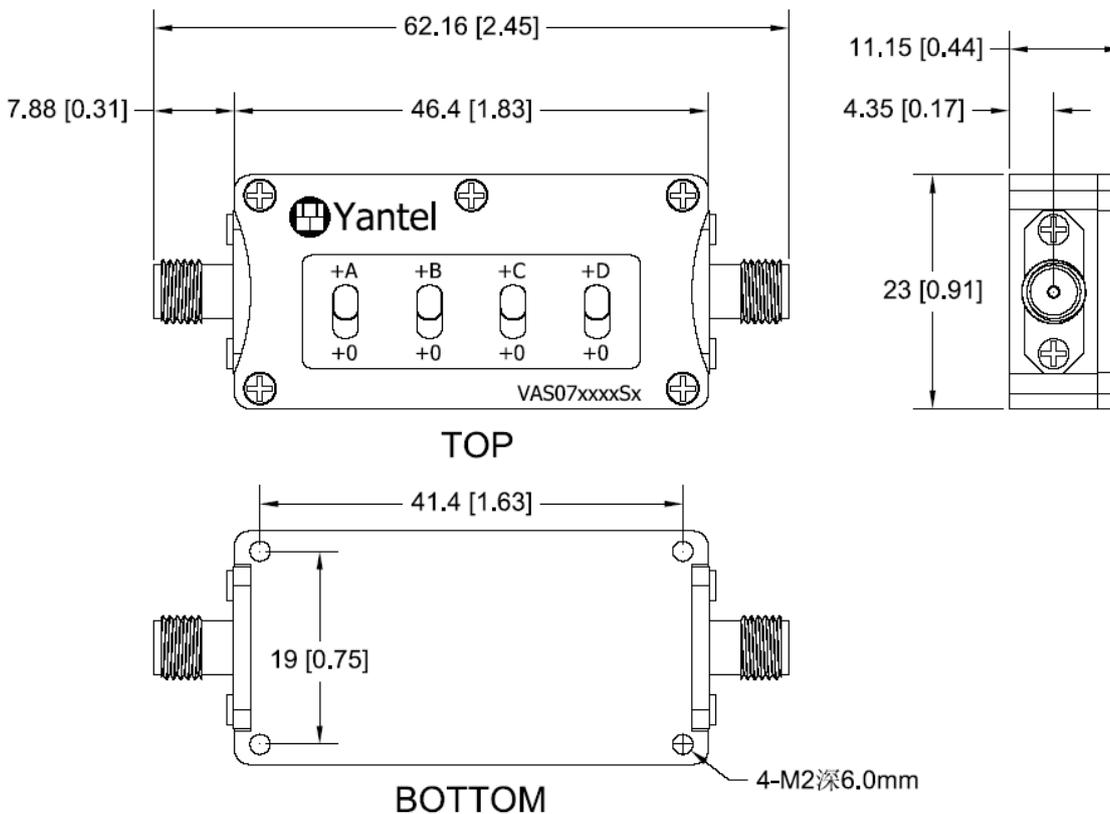
### Connector Options:

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)**

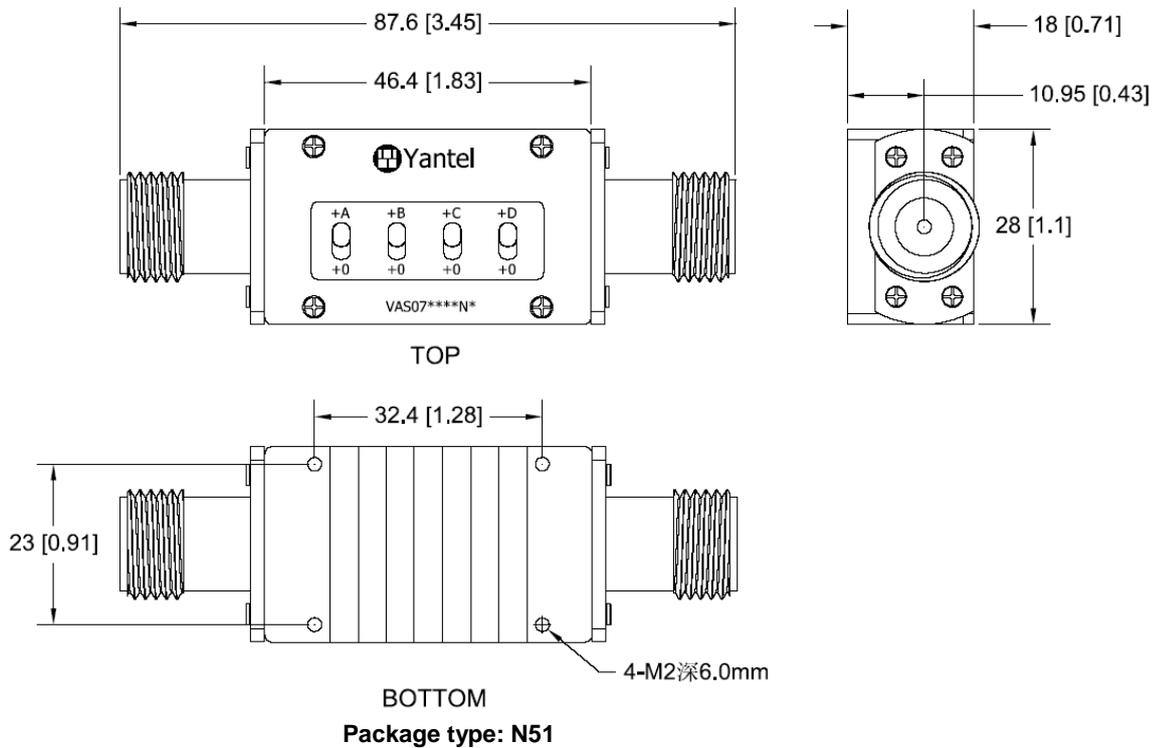


**Package type: S51**

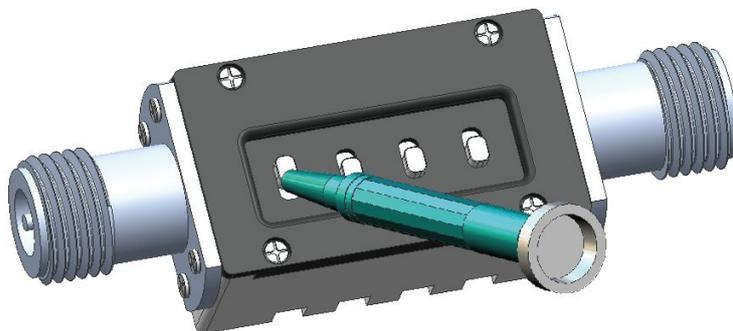
Yantel Corporation

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

**N-type Connector**

**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.

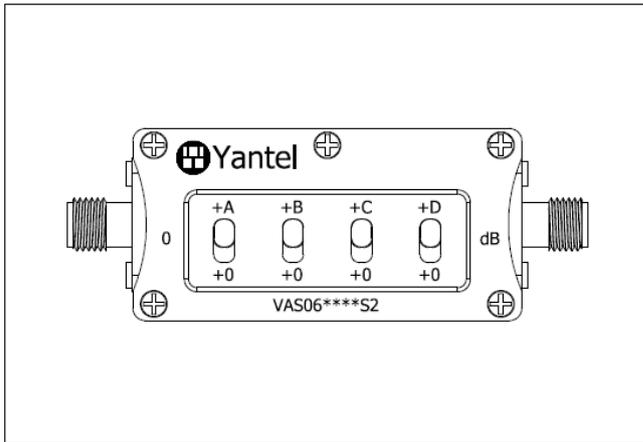
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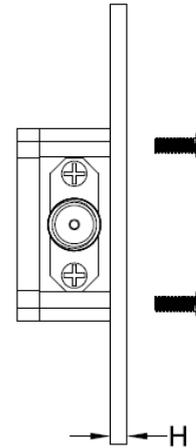
**Mounting Instructions:** Unit: mm(inch)

This product is panel-mountable via screws.

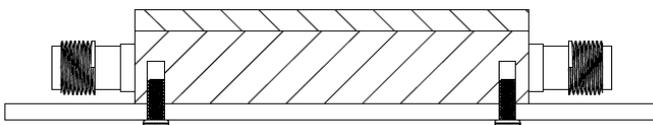
- Four mounting holes on the product plate. Refer to Fig2, Fig6.
- H represents the thickness of panel. Refer to Fig3, Fig4.
- Recommended length of the screw is 3mm+H. Refer to Fig5.



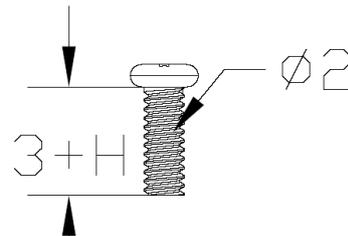
**Front View Fig 2**



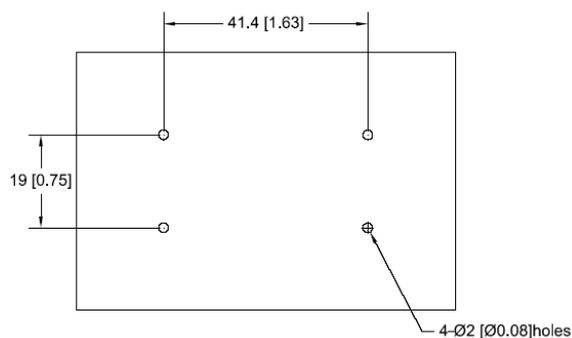
**Lateral View Fig 3**



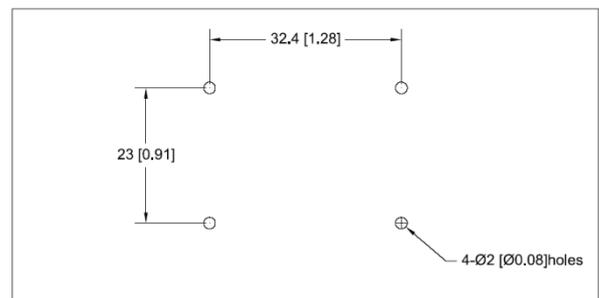
**Sectional View Fig 4**



**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.