

## Manual Step Attenuator

- ◆ DC to 4.2GHz
- ◆ 0 to 35dB in 1dB Step
- ◆ 5 Watt
- ◆ Choice of QMA Type Connectors



### 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: 1dB, 2dB, 3dB, 5dB, 10dB, 10dB,
- 31 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℃ is available.
- Attenuation values are adjustable in a power-on state, test data can be read continuously, no interruption.

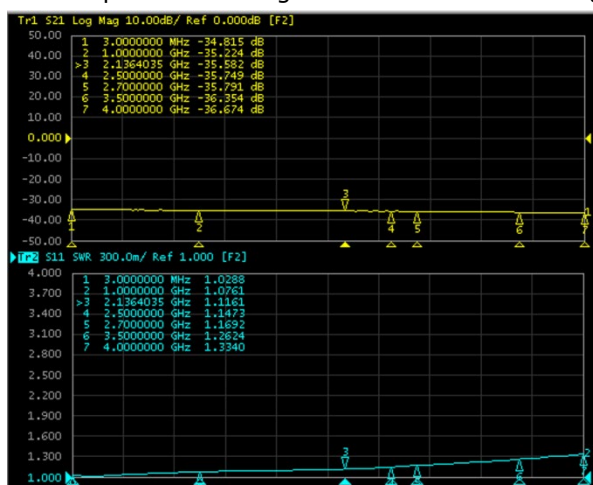
### Specifications

<b>Frequency Range</b>	DC to 4.2GHz
<b>Attenuation</b>	0 to 35dB
<b>Step Value</b>	1dB
<b>Insertion loss at 0dB (typ.)</b>	
QMA connector	1dB at 1 GHz
<b>Attenuation Accuracy (typ.)</b>	
QMA connector	+0.9dB at 1GHz
	+0.85dB at 2GHz
	+1.55dB at 3GHz
	+1.80dB at 4.2GHz
<b>Nominal Impedance</b>	50 Ohm
<b>Average Power</b>	5 Watt
<b>Operating Temperature</b>	-40°C to +85°C

Freq. Range (GHz)	Connector Type	VSWR(:1)	
		Typ.	Max.
DC to 4.2	QMA	1.25	1.45

### Characteristic

For example the testing curves of VAS073501Q51D of



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### 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 and Q is QMA.

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

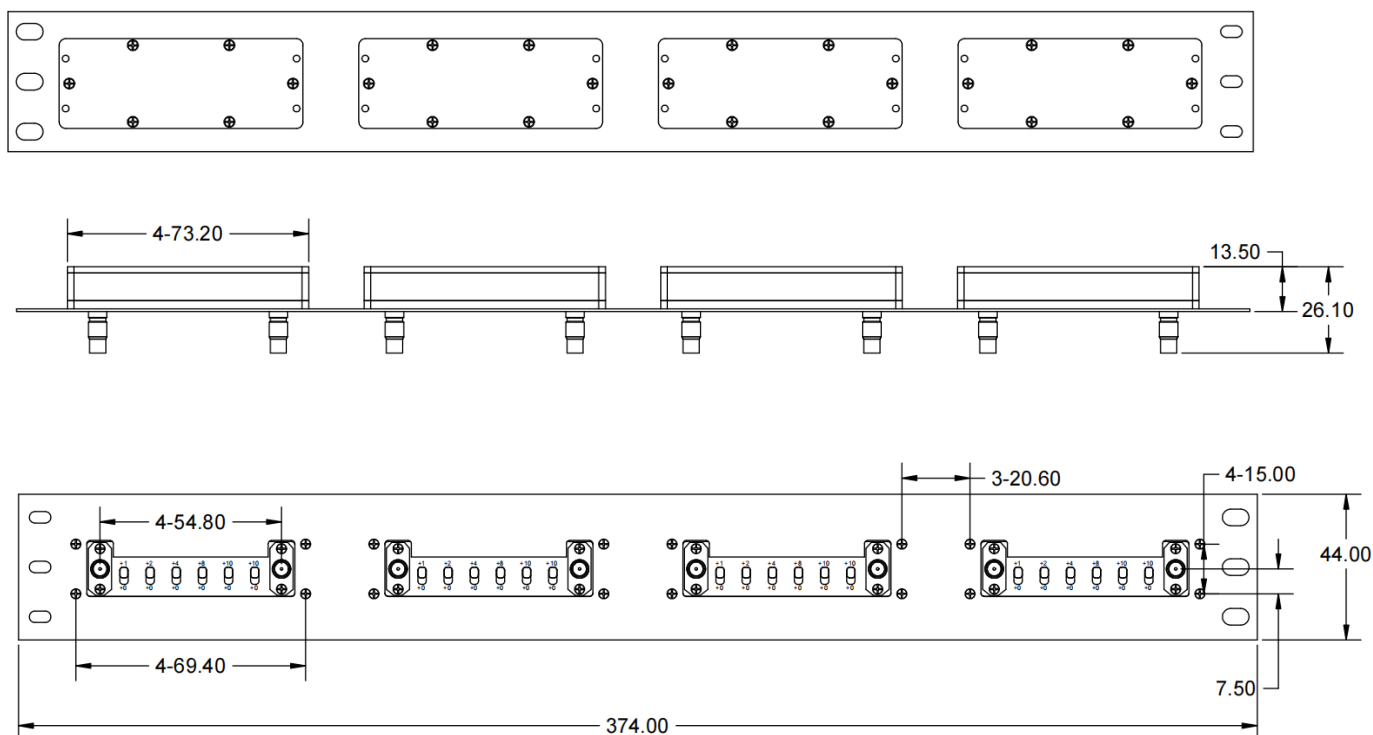
#### Connector Options:

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

#### QMA Connector Units:mm



#### NOTE:

1. ALL dimensions shown in mm (tolerance:  $\pm 0.05\text{mm}$ ) unless stated otherwise
2. RoHS Compliant in accordance with EU Directive (2002/95/EC)

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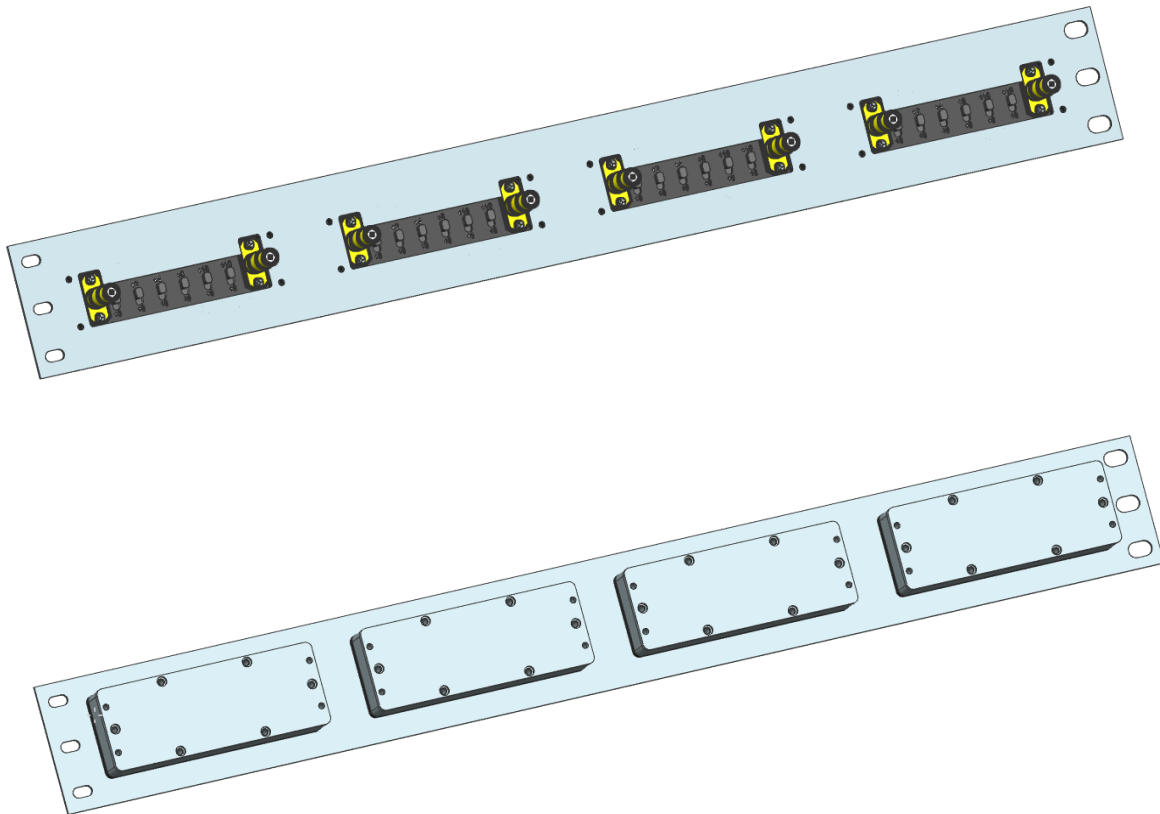
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Rev A1.0

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**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.

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