

Variable Attenuator VAB Series

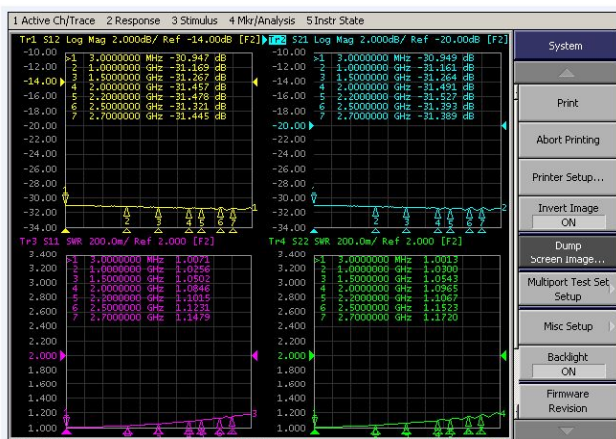
- ◆ DC to 2.7GHz
- ◆ 0 to 31 dB in 1 dB Step
- ◆ 2 Watt or 5 Watt
- ◆ SMA Connectors, N type, BNC available

Features

- Ultra small size with innovative microstrip technology
- Available step value: 0~31dB.
- High accuracy
- High performance low cost
- Impedance: 50 or 75 ohm
- Operation repeatability: 10000 times each switch
- POM material in rotary switch, operating up to 85°C
- Smart size

Characteristic

For example the testing curves of VAB3101SA5 of 31 dB



Specifications

Frequency Range	DC to 2.7GHz
Attenuation	0 to 31dB
Step Value	1 dB
Insertion loss at 0dB	0.3dB at 2GHz 0.65dB at 2.7GHz

Attenuation Accuracy (typical)

±0.65dB from DC to 2.7GHz

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

Attenuation 0~31dB

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 2.7	1.15	1.30

Technical drawings of the VAB3101SA5 module showing front, side, and rear views with dimensions in mm and inches.

Front View:

- Overall width: 32 (1.26)
- Overall height: 53.6 (2.11)
- Top mounting holes: 3-M2.5
- Yantel logo and VAB3101SA5 part number.
- Two potentiometers labeled +0 and +10.
- Rotary switch with positions 0 through 11.
- Bottom mounting holes: 16 (0.63)
- Distance from bottom edge to rotary switch center: 19.5 (0.76)
- Distance from bottom edge to potentiometer center: 14 (0.55)

Side View:

- Top width: 23.05 (0.90)
- Top width (excluding mounting holes): 27.05 (1.06)
- Height from top edge to potentiometer center: 14 (0.55)
- Height from top edge to rotary switch center: 17.35 (0.68)
- Bottom width: 34.35 ± 0.15 (1.35)

Rear View:

- Top width: 22.8 (0.89)
- Height from top edge to potentiometer center: 14.6 (0.57)
- Overall height: 48.6 (1.91)

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

Application case:

Repeater: In deploying the indoor repeater system, Rotary Variable Attenuator is ideal to control the signal and keep each repeater in its specific coverage range.

This VAB series can be rack mountable, easier to operate from the rack outside.

Application

