

Variable Attenuator VAB Series

- ◆ DC to 3GHz
- ◆ 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:1000 times each switch
- Polycarbonate material in rotary switch, operating up to 120°C

Characteristic

For example the testing curves of VAB3101NA2 of 31 dB



Specifications

Frequency Range	DC to 2.7GHz
Attenuation	0 to 31dB
Step Value	1 dB
Insertion loss at 0dB	0.7dB at 2GHz 1.2dB at 2.7GHz

Attenuation Accuracy
0.3dB at 1GHz (typical)
0.5dB at 1GHz (max)

0.7dB at 2GHz (typical)
1.1dB at 2GHz (max)

1.3dB at 2.7GHz (typical)
1.5dB at 2.7GHz (max)

Nominal Impedance	50 Ohm
Average Power	2 Watt
Operating Temperature	-40°C to +85°C
Attenuation 0dB	

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 1.5	1.15	1.35
1.5 to 2.5	1.35	1.50
2.5 to 2.7	1.15	1.35

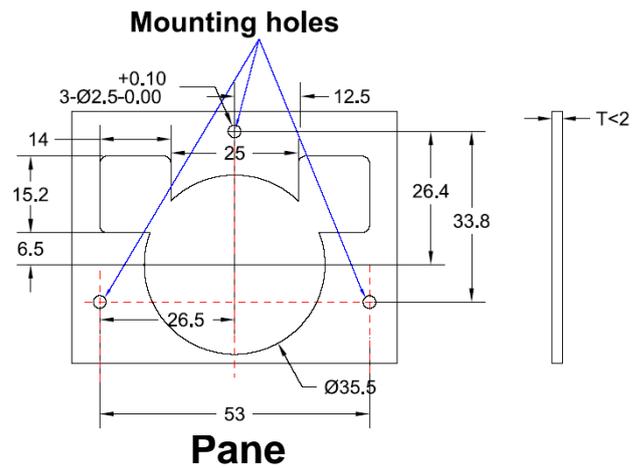
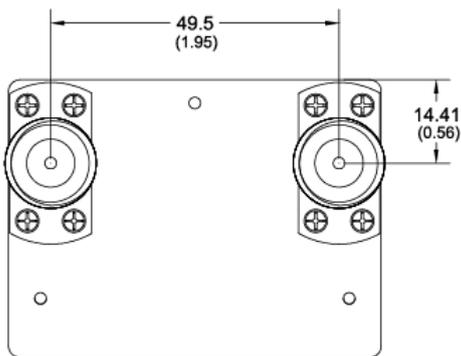
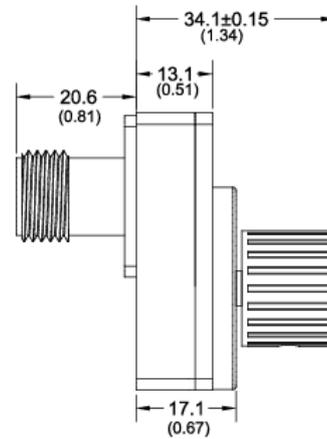
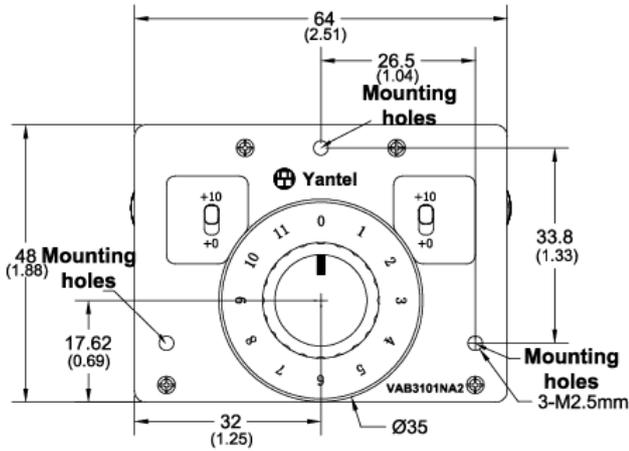
Attenuation 1~11dB

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 2	1.15	1.35
2 to 2.5	1.30	1.50
2.5 to 2.7	1.45	1.60

Attenuation 12~31dB

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 2.7	1.10	1.35

Package Outlines
N Connector



Units:mm

NOTE:

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