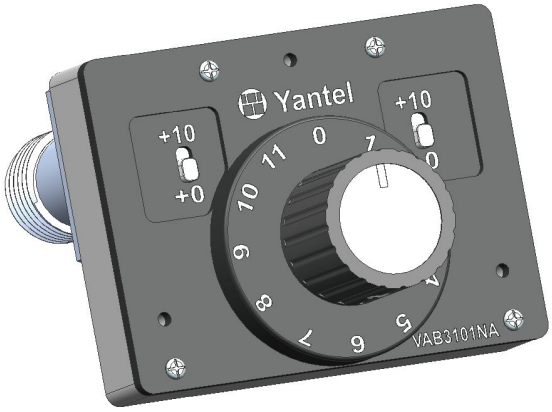
VAB3101NA5*
Variable Attenuator
Patent product

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:10000 times each switch
- POM material in rotary switch,operating up to 85℃

Specifications

Frequency Range	**DC to 3GHz**
Attenuation	**0 to 31dB**
Step Value	**1 dB**
Insertion loss at 0dB	**0.6dB at 2GHz**
	1.0dB at 3GHz

Attenuation Accuracy

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

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

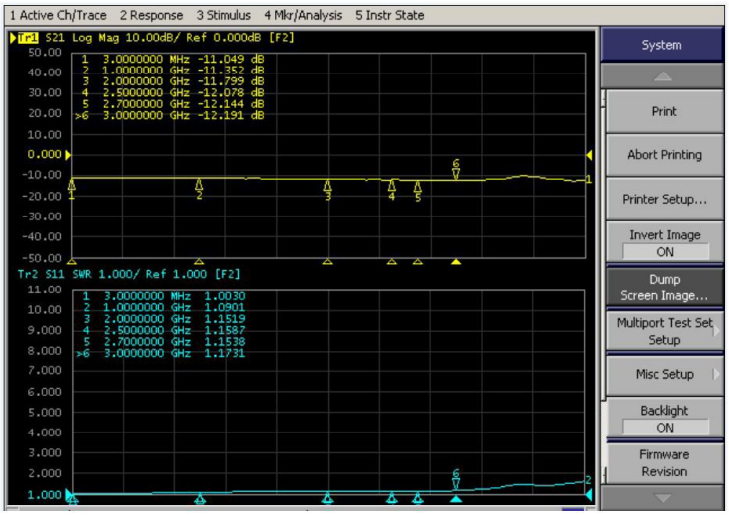
1.3dB at 2.5GHz (typical)
1.5dB at 2.5GHz (max)

1.5dB at 3GHz (typical)
2.0dB at 3GHz (max)

Nominal Impedance	**50 Ohm**
Average Power	**5 Watt**
Operating Temperature	**-40℃ to +85℃**

Characteristic

For example the testing curves of VAB3101NA5 of 31 dB



Attenuation 0~11dB

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 3	1.2	1.45

Attenuation 12~31dB

Freq. Range (GHz)	VSWR(:1)	
	Typ.	Max.
DC to 3	1.10	1.35

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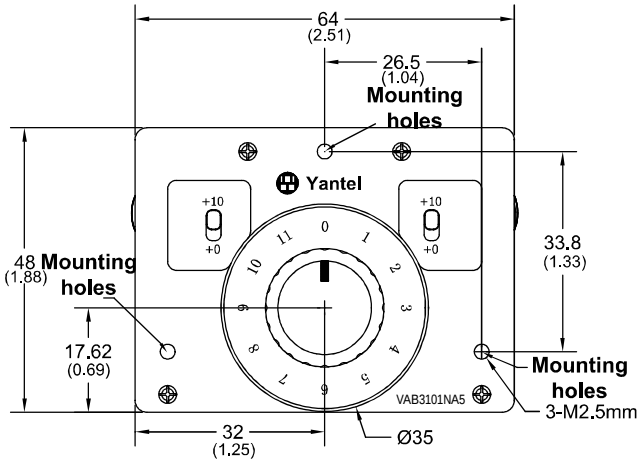
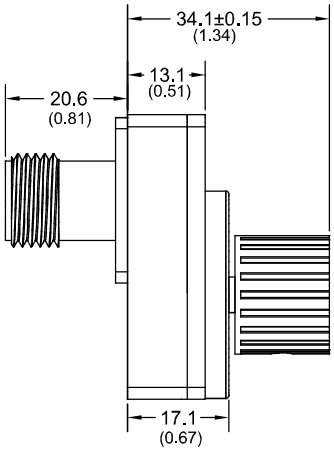
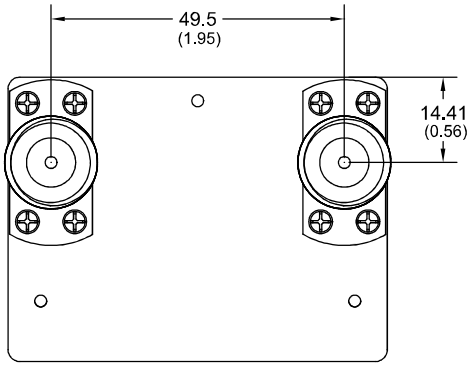
Package Outlines
N Connector

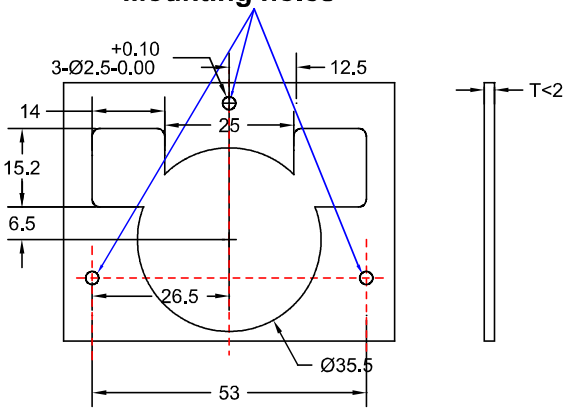
Units:mm







Mounting holes



Pane

NOTE:

1. **ALL dimensions shown in mm(tolerance: +/-0.2mm) unless stated otherwise**
2. **RoHS Compliant in accordance with EU Directive(2002/95/EC)**

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