

VAB5101SA5 Variable Attenuator Patent product

Variable Attenuator VAB Series

- ◆ DC to 2.7GHz
- ◆ 0 to 51 dB in 1 dB Step
- ◆ 2 Watt or 5 Watt



- Ultra small size with innovative microstrip technology
- Available step value:0~51dB.
- 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

Specifications

Frequency Range Attenuation Step Value

DC to 2.7GHz 0 to 51dB 1 dB

Insertion loss at 0dB

0.55dB at 2GHz 0.85dB at 2.7GHz

Attenuation Accuracy (typical)

-0.65dB to +1.2dB from DC to 2.7GHz

Nominal Impedance Average Power Operating Temperature 50 Ohm 5 Watt

-40°C to +85°C

Attenuation 0~51dB

Freq. Range	VSWR(:1)	
(GHz)	Тур.	Max.
DC to 2.7	1.25	1.40

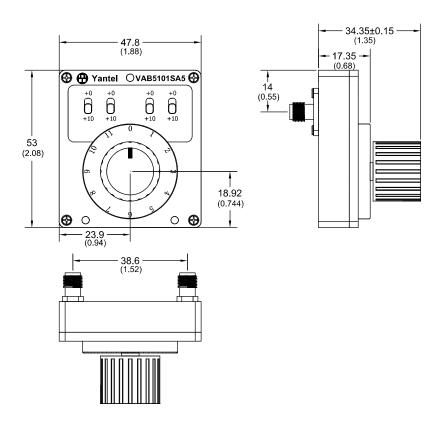
Characteristic

For example the testing curves of VAB5101SA5 of 40 dB

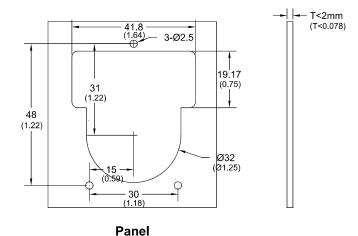
-31.00	Mag 1.000dB/ 3.0000000 MHz	Ref -32.00dB [-39.613 dB	F2] Tn2 S21 L	.og Mag 1.000c		System
-32.00	1.0000000 GHz 2.0000000 GHz	-39.841 dB	-32.00	2 1.0000000 3 2.0000000	GHz -39.803	dB A
	2,5000000 GHz	-40.368 dB -40.102 dB	-34.00	4 2.5000000 5 2.7000000	GHz -40.026	dB dB
-35.00			-35.00			
-36.00			-36.00 ▶			Abort Printin
-37.00			-37.00			
-38.00			-38.00			Printer Setup
-39.00		5	-39.00			\$ m2
-40.00	Ä	- Marie	-40.00	7	month	Invert Imag
-41.00	250.0m/ Ref 1	A 4 A	-41.00 k	WR 250.0m/ Re	-6 1 000 FF33	
3.500	Z coccook Mil	2 0005	3.500 p	1 3.0000000	MHz 1.0031	Dump Screen Image
3.250 2	1.0000000 MHz	1.0331	3.250	2 1.00000000	GHz 1.0605	
3.000	2.5000000 GHz	1.0927	3.000	3 2.00000000 4 2.5000000	GHz 1.2193	Multiport Test
2.750	2.7000000 GHz 3.0000000 GHz	1.1317	2.750	5 2.7000000 6 3.0000000	GHz 1.2369 GHz 1.2584	Setup
						Misc Setup
2.250			2.250			
			2.000			Backlight
			1.750			ON
2.000						
			1.500			Firmware



Package Outlines Units:mm(inch)



Mounting holes



NOTE:

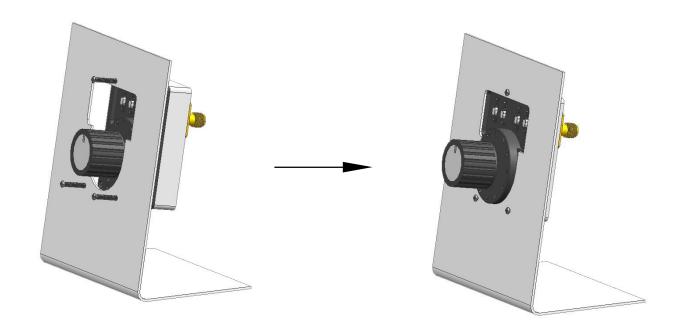
- 1. ALL dimensions shown in mm(tolerance: +/-0.2 mm) unless stated otherwise
- 2. RoHS Compliant in accordance with EU Directive (2011/65/EU)



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