

VAB5101SA2 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

Features

- 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 DC to 2.7GHz
Attenuation 0 to 51dB
Step Value 1 dB
Insertion loss at 0dB 0.55dB at 2GH

0.55dB at 2GHz 0.85dB at 2.7GHz

Attenuation Accuracy (typical)

-0.65dB to +1dB from DC to 2.7GHz

Nominal Impedance Average Power Operating Temperature 50 Ohm 2 Watt -40℃ to +85℃

Instrictate log Mag 2.000d8/ Ref -32.00d8 (F2) System Attenuation 0~51dB

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

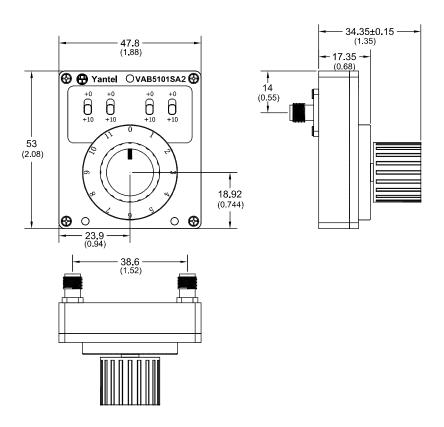
Characteristic

For example the testing curves of VAB5101SA2 of 40 dB

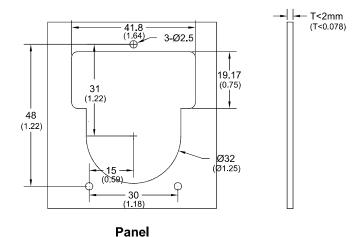
Active Ch	/Tra	ice 2 Res	sponse	3 Stimu	ılus 4	Mkr/	Analysis 5	Inst	tr State					
Tr1 512	Log					[F2]	Pr2 521 -22.00	Log	Mag 2.000				F2]	System
-24.00 -26.00	123	3.00000 1.00000 1.50000	00 GHz 00 GHz	-40.40 -40.32	0 dB 0 dB		-24.00 -26.00	23	3.0000000 1.0000000 1.5000000	GHz GHz	-40.283 -40.294	dB dB	- li	<u> </u>
-28.00 -30.00	4 5 6	2.00000 2.20000 2.50000	00 GHz 00 GHz	-40.21 -39.98	8 dB 3 dB		-28.00 -30.00	4 5 6	2.0000000 2.2000000 2.5000000	GHz	-40.238 -40.147 -39.913	dB		Print
	8	2.70000 3.00000	00 GHz 00 GHz	-39.88 -39.93	2 dB 2 dB		-32.00	7	2.7000000 3.0000000		-39.898 -39.933	dB dB	4	
-34.00 -36.00							-34.00 -36.00							Abort Printing
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3.000 2.800 2.600	1m4100	1.50000 2.00000 2.20000 2.50000	00 GHz 00 GHz 00 GHz 00 GHz	1.044 1.051 1.05 1.058			3.000 2.800 2.600	m d m o	1.5000000 2.0000000 2.2000000 2.5000000	GHZ GHZ GHZ GHZ	1.0759 1.0820 1.0892 1.0763			Multiport Test Si Setup
2.400	8	3.00000	00 GHz 00 GHz	1.055	9		2,400	>8	3.0000000	GHZ	1.1040		$\ \ $	Misc Setup
2.000						-	2.000						Kľ	Backlight
1.800							1.800							ON
1.400							1.400						86	Firmware Revision
1.000						8	1.000		يبيري			3	*	



Package Outlines Units:mm(inch)



Mounting holes



NOTE:

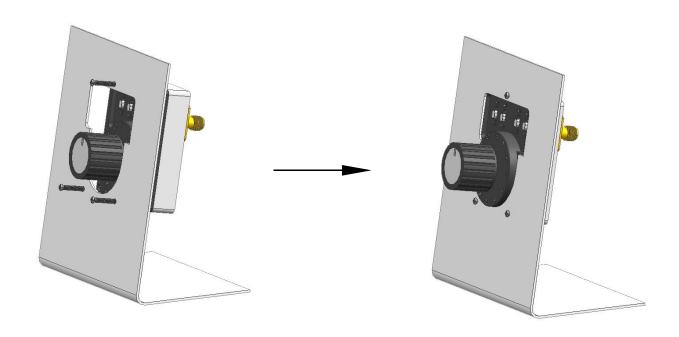
- 1. ALL dimensions shown in mm(tolerance: +/-0.2mm) unless stated otherwise
- 2. RoHS Compliant in accordance with EU Directive(2011/65/EU)



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