



Features

• Continuous variable: 0~8dB

• Power rating: 1W

• Able to be mounted soldered on the PCB

• Wide frequency range: DC ~ 2GHz available

Low VSWR

• Low insertion loss

• High performance, competitive price

• Wide attenuation range

• Impedance: 50Ω or 75Ω

• Operating temperature:-40 °C ~ +105 °C

 Compared with digital attenuators, zero distortion, no extra IP3, lower noise, higher reliability.

• At least 500 circles operation.

· Customized attenuation values available

Miniature Variable Attenuator VAC Series

◆DC to 2GHz

♦1 W

◆Resin SMD package

♦Thick Film Chip

Specifications

Frequency Range DC to 2GHz
Attenuation 0 to 8dB

Insertion loss at 0dB DC to 1GHz 0.6dB (Typical)

1GHz to 2GHz 1.6dB (Typical)

Average Power 1 W

Impedance 50 Ohm

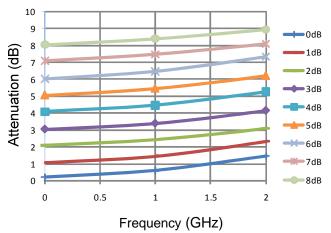
Operating Temperature -40°C to +105°C

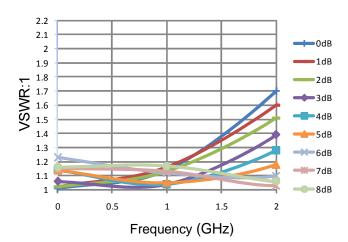
Attenuation (dB)	FREQ.RANGE (GHz)	Attenuation Accuracy(dB)
0 to 8	DC to 1.5	1.0
	1.5 to 2	1.5

Attenuation	FREQ.RANGE	Typical VSWR:1
(dB)	(GHz)	i ypicai vovik.i
0 to 8	DC to 1.5	1.45
	1.5 to 2	1.75

Characteristic

The testing curves of VAC18(0 to 8 dB)

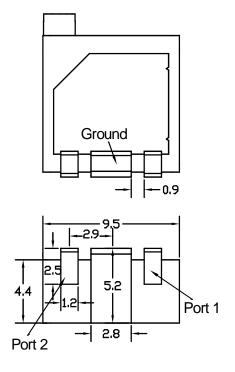


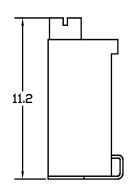


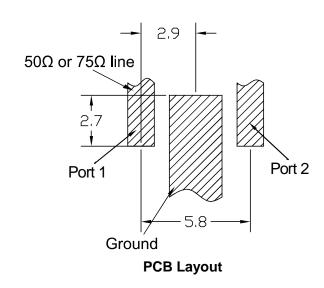


Package Outlines(mm)

Recommended PCB Layout







Remark:

- 1. After the first attenuation adjustment, operators should stop and wait for about 3-5 seconds to get the finally stable attenuation, since the release of the inside electrical part will cause ±0.3dB attenuation fluctuation.
- 2. Confirm the required attenuation again and finally draw glue to the adjusting knob to fix it.