

Variable Attenuator VA101

RFHIC

Product Features

- SMD Type
- Single Voltage
- Low Cost
- Variable Analog Attenuator
- High Linearity

Application

- Repeater
- Base Station
- RF Sub-Systems



Description

This Variable Attenuator has high gain throughout the broadband.

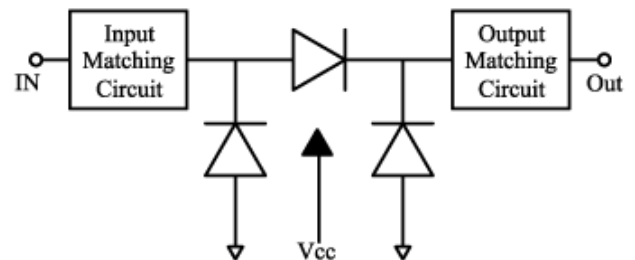
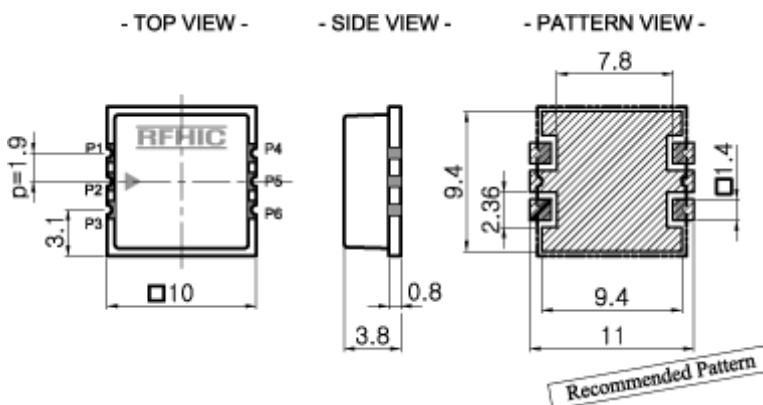
Specifications

(Operating Temperature:-40°C~+100°C)

PARAMETER	VA101				
		Min	Typ	Max	Units
Insertion Loss (Min Attn) (Vctl=10 V)	50-1000 MHz		2.3		dB
	1000-2000MHz		2.5		dB
	2000-3000MHz		3.0		dB
Attenuation Range (Vctl= 0 to +10V)	50-1000 MHz	30		35	dB
	1000-2000MHz	25		30	dB
	2000-3000MHz	22		25	dB
Flatness (Peak to Peak)	50-1000 MHz		±0.5		dB
	1000-2000MHz		±0.5		dB
	2000~3000MHz		±0.5		dB
Input Return Loss	50-1000 MHz		25		dB
	1000-2000MHz		20		dB
	2000-3000MHz		15		dB
Output Return Loss	50-1000 MHz		25		dB
	1000-2000MHz		20		dB
	2000-3000MHz		15		dB
Input Power for 1dB Compression			30	32	dBm

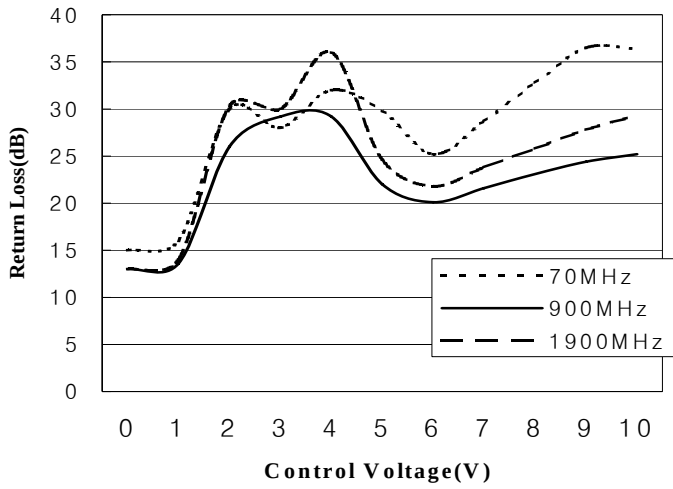
Dimensions in mm

Functional Diagram

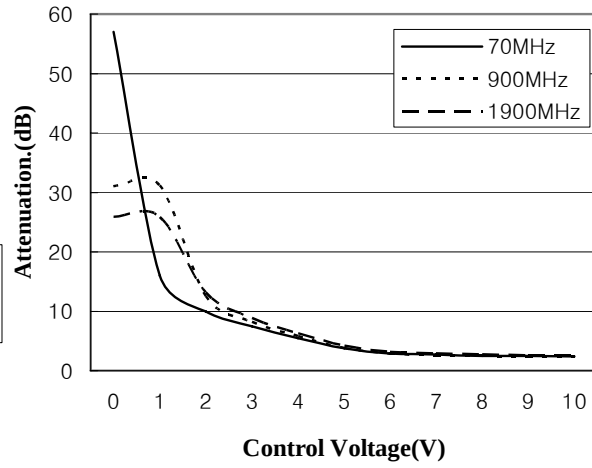


Pin No.	Function	Pin No.	Function
P1	Input 1	P4	Output 1
P2	Ground	P5	Ground
P3	Control	P6	Vcc+5V

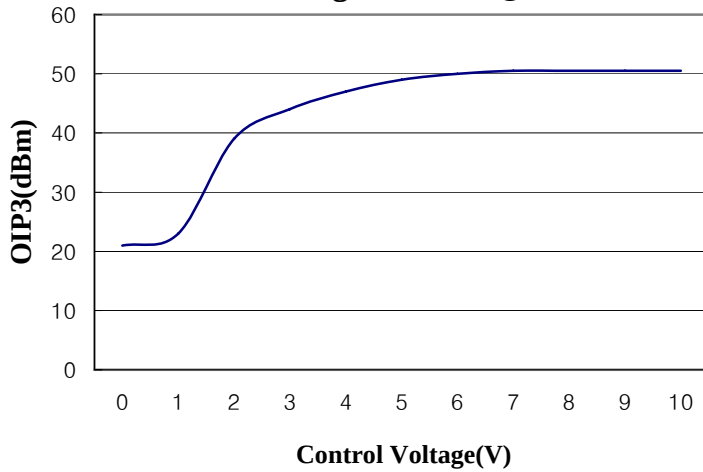
Control Voltage vs. Return Loss



Control Voltage vs. Attenuation



Control Voltage vs. OIP3 @900MHz



Control Voltage vs. 1dB compression @900MHz

