

Product Features

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

Application

- Repeater
- Base Station
- RF Sub-Systems



Package Type: HY-46

Description

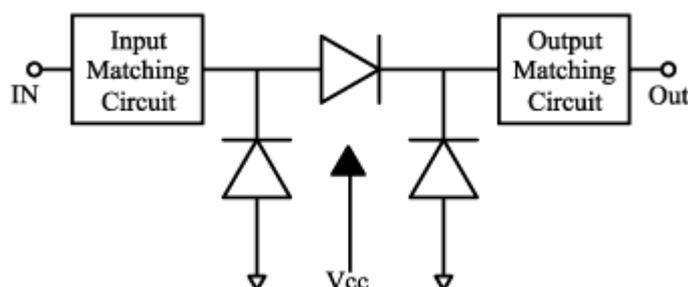
This Variable Attenuator has high gain throughout the broadband.

Specifications

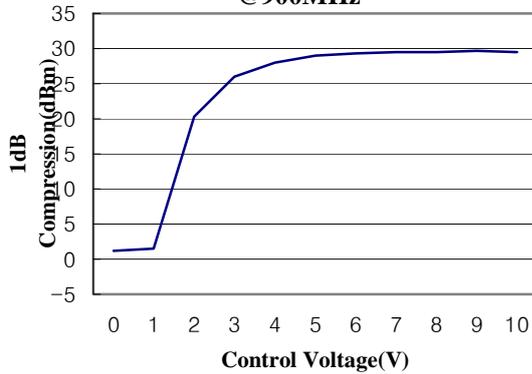
(Operating Temperature:-40°C~+100°C)

PARAMETER	VA101				Units
		Min	Typ	Max	
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

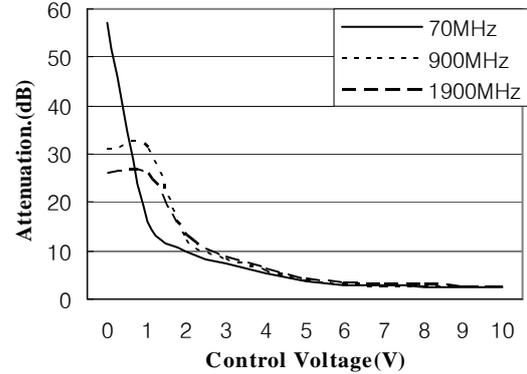
Functional Diagram



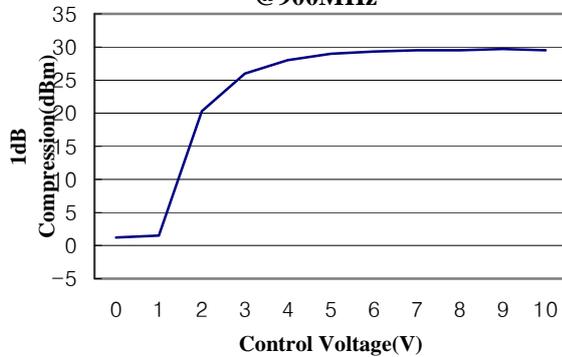
Control Voltage vs. 1dB compression @900MHz



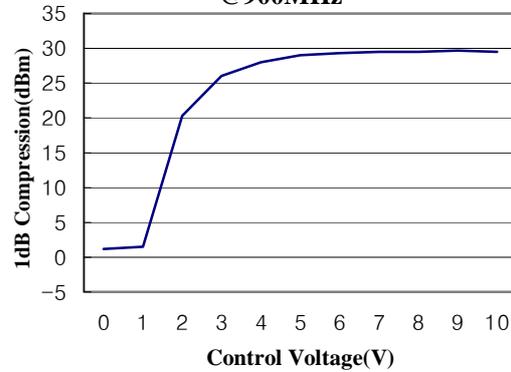
Control Voltage vs. Attenuation



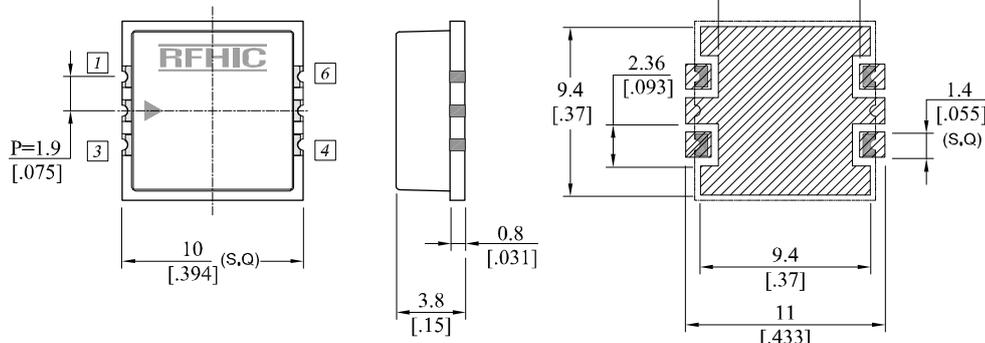
Control Voltage vs. 1dB compression @900MHz



Control Voltage vs. 1dB compression @900MHz



Package Dimensions (Type : HY-46)



Pin No.	Function	Pin No.	Function
1	Input 1	4	Vcc+5V
2	Ground	5	Ground
3	Control	6	Output 1

Recommended Pattern

Unit : $\frac{\text{mm}}{\text{[inch]}}$	Tolerance : $\pm \frac{0.2}{.008}$
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