## HE041 Series Voltage Variable Attenuators

BOWEI INTEGRATED CIRCUITS CO., LTD.



- Features
- •Siagle valtoge control
- •High attenuation low lossertion loss
- •Fast switching time<1.5uS

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- •Thin film coustraction
- •Hermetic package
- ●Operating temperature range :-55°C ~+85°C

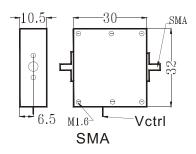
Specifications( measured in a 50  $\Omega$  system , Vc=0 $\sim$ 10V, TA=-55 $\mathbb{C}$ ~+85 $\mathbb{C}$ )

C/N	Frecquency (GHz)	Insersion loss(dB)	Attenuation Max(dB)	VSWR	$\begin{array}{c} \text{Control Current} \\ \text{I}_{\text{Co}}\left(\text{mA}\right) \ \Delta \end{array}$
HE041-1	2. 0~3. 0	1.6	50	≤1.8:1	0~10
HE041-2	3. 0~3. 8	2.0	45	≤1.8:1	0~10
HE041-3	3. 7~4. 5	2.3	40	≤1.8:1	0~10
HE041-4	4. 5~5. 5	2.5	35	≤2.0:1	0~10
HE041-5	5. 0~6. 0	3.0	35	≤2.0:1	0~10

"  $\triangle$  " Measured at Tc=24 $\pm$ 1°C

## **Absolute Maximum Ratings**

Input Power:+20dBm Storage Temp:+125°C

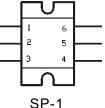


## **Application Notes**

- 1.Specificed frequency rang, attenuation packages are available
- 2.R depends on the range of control voltage  $V_c=0\sim 3V$ , R=510  $\Omega$

 $V_c=0~10V, R=2000 \Omega$ 

3.See assembly section for mounting method



PIN Connection

PIN	Function	PIN	Function	-
1	Control	4	N/C	
2	Input	5	Output	
3	N/C	6	N/C	

llr

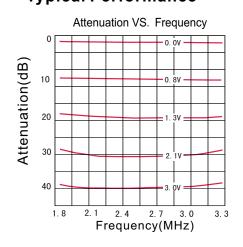
RFi(RFo)

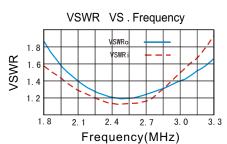


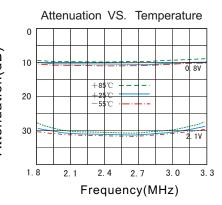
Attenuation(dB

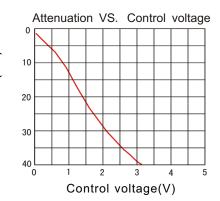
RFo(RFi)

## **Typical Performance**









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HEXXX