

### Features

- Frequency Range: 2.0~2.5GHz
- Gain Flatness:  $\Delta G_p \leq \pm 0.5$  dB
- $V_{SWRi} \leq 1.6$
- Standard Hermetic Package
- Operating Temperature Range:  $-55^\circ\text{C} \sim +85^\circ\text{C}$

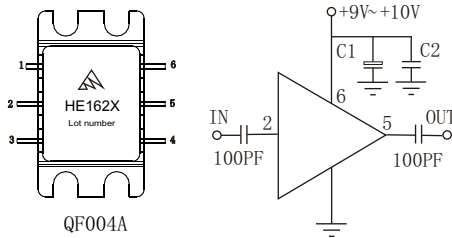
### Specifications (50 $\Omega$ , $T_A = -55^\circ\text{C} \sim +85^\circ\text{C}$ )

Parameter		Frequency Range	Gain	Input Power	Saturation Output Power	DC Operation Voltage/Current
HE162A	Typical	2.0~2.5	29.5	-5	30.5	9/0.45
	Guaranteed	2.0~2.5	$\geq 29.0$	-5	$\geq 30.0 \Delta$	--
HE162B	Typical	2.0~2.5	29.5	0	33.5	10/0.75
	Guaranteed	2.0~2.5	$\geq 29.0$	0	$\geq 33.0 \Delta$	--
HE162C	Typical	2.0~2.5	29.5	0	35.0	10/1.0
	Guaranteed	2.0~2.5	$\geq 29.0$	0	$\geq 34.8 \Delta$	--

" $\Delta$ "  $T_A = 24 \pm 1^\circ\text{C}$  ;

### Maximum Rating

DC Voltage :  
 HE162A: 10VDC  
 HE162B/C: 11VDC  
 RF Input: +10dBm  
 Storage Temp: +125 $^\circ\text{C}$   
 Case Temp: +105 $^\circ\text{C}$



### Application Notes

1. Typical application shown as right:  $C_1 = 10 \sim 33 \mu\text{F}$  ;  
 $C_2 = 1000 \sim 3300 \text{pF}$  ;
2. The output port should be connected with an isolator;
3. See assembly section for mounting information
4. Input port and output port should be avoided operating under short, open or high VSWR state .
5. Heat sink must be provided in use.

### Typical Curves (HE162C)

