



Features

- Frequency Range: 2.7~3.1GHz
- Gain Flatness: $\Delta G_p \leq \pm 0.5\text{dB}$
- $VSWR_i \leq 1.6$
- Standard Hermetic Package
- Operating Temperature Range: $-55^\circ\text{C} \sim +85^\circ\text{C}$

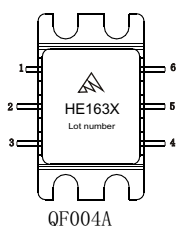
Specifications (50 Ω , $T_A = -55^\circ\text{C} \sim +85^\circ\text{C}$)

Model	Parameter	Frequency Range	Gain	Input Power	Saturation Output Power	DC Operation Voltage/Current
		$f_L - f_H$	G_p	P_{in}	P_o	V_{cc} / I_{cc}
		GHz	dB	dBm	dBm	V/A
HE162A	Typical	2.7~3.1	29.5	0	30.5	9/0.45
	Guaranteed	2.7~3.1	≥ 29.0	0	$\geq 30.0 \Delta$	—
HE162B	Typical	2.7~3.1	29.5	3	33.5	10/0.75
	Guaranteed	2.7~3.1	≥ 29.0	3	$\geq 33.0 \Delta$	—
HE162C	Typical	2.7~3.1	29.5	3	35.0	10/1.0
	Guaranteed	2.7~3.1	≥ 29.0	5	$\geq 34.8 \Delta$	—

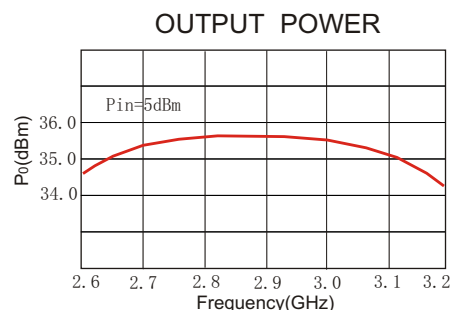
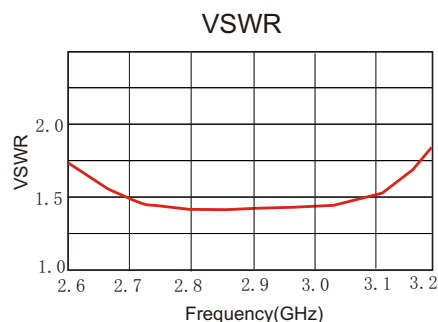
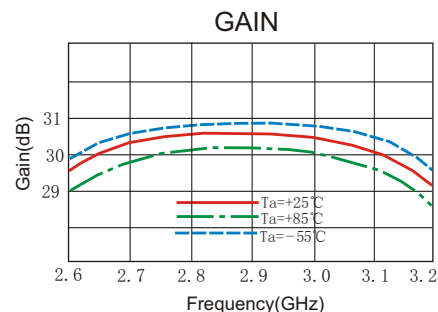
“ Δ ” $T_A = 24 \pm 1^\circ\text{C}$;

Maximum Rating

DC Voltage :
HE163A: 10VDC
HE163B/C: 11VDC
RF Input: +10dBm
Storage Temperature: $+125^\circ\text{C}$
Case Temperature: $+105^\circ\text{C}$



Typical Curves (HE161D)



Application Notes

1. Typical application shown as right: $C_1 = 10 \sim 33 \mu\text{F}$;
 $C_2 = 1000 \sim 3300 \mu\text{F}$;
2. Output port should be connected with isolator;
3. Installation Method on P128;
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.

