

Features

- Frequency Range: 1.2~1.6GHz
- Gain Flatness: $\Delta G_p \leq \pm 0.5\text{dB}$
- $VSWR_i \leq 1.6$
- Standard Hermetic Package
- Operating Temperature Range: $-55^\circ\text{C} \sim +85^\circ\text{C}$

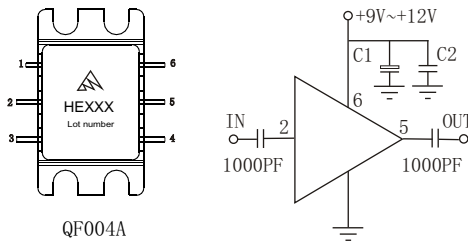
Specifications (50 Ω , $T_A = -55^\circ\text{C} \sim +85^\circ\text{C}$)

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
HE161A	Typical	1.2~1.5	34.5	-5	30.5	9/0.45
	Guaranteed	1.2~1.5	≥ 34.0	-5	$\geq 30.0 \Delta$	--
HE161B	Typical	1.2~1.5	32.5	0	33.5	10/0.75
	Guaranteed	1.2~1.5	≥ 32.0	0	$\geq 33.0 \Delta$	--
HE161C	Typical	1.2~1.5	34.5	0	35.0	10/1.0
	Guaranteed	1.2~1.5	≥ 33.8	0	$\geq 34.8 \Delta$	--
HE161D	Typical	1.2~1.5	35.5	0	36.5	12/1.1
	Guaranteed	1.2~1.5	≥ 35.0	0	$\geq 36.0 \Delta$	--

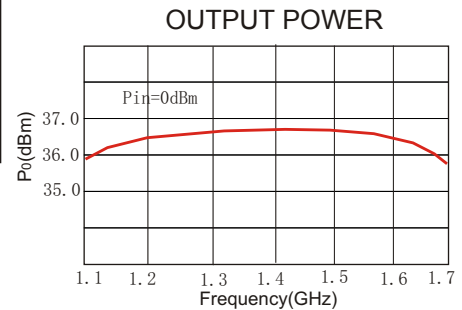
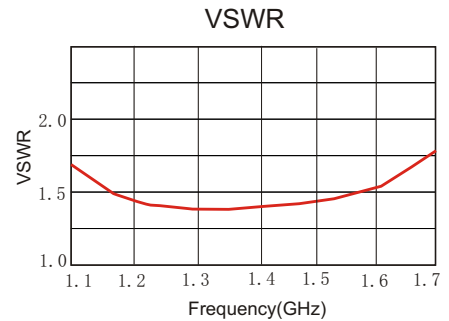
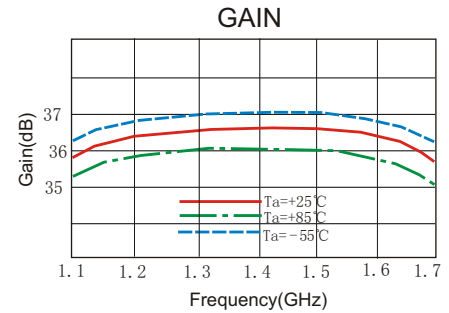
“ Δ ” $T_A = 24 \pm 1^\circ\text{C}$;

Maximum Rating

- DC Voltage :
- HE161A: 10VDC
 - HE161B/C: 11VDC
 - HE161D: 13VDC
- RF Input: +10dBm
 Storage Temp: +125 $^\circ\text{C}$
 Case Temp: +105 $^\circ\text{C}$



Typical Curves (HE161D)



Application Notes

1. Typical application shown as right: $C_1 = 10 \sim 33 \mu\text{F}$;
 $C_2 = 1000 \sim 3300\text{pF}$;
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.