

Features

- Frequency Range: 0.95~1.25GHz
- Gain Flatness: $\Delta G_p \leq \pm 0.5\text{dB}$
- $V_{SWRi} \leq 1.6$
- Standard Hermetic Package
- Operating Temperature Range: $-55^\circ\text{C} \sim +85^\circ\text{C}$

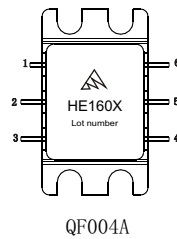
Specifications (50 Ω , $T_A = -55^\circ\text{C} \sim +85^\circ\text{C}$)

Model	Parameter	Frequency Range	Gain	Input Power	Saturation Output Power	DC Operation Voltage/Current
		$f_L - f_H$ GHz	G_p dB	P_{in} dBm	P_O dBm	V_{cc} / I_{cc} V/A
HE160A	Typical	0.95~1.25	34.5	-5	30.5	9/0.45
	Guaranteed	0.95~1.25	≥ 34.0	-5	$\geq 30.0 \Delta$	--
HE160B	Typical	0.95~1.25	32.5	0	33.5	10/0.75
	Guaranteed	0.95~1.25	≥ 32.0	0	$\geq 33.0 \Delta$	--
HE160C	Typical	0.95~1.25	34.5	0	35.0	10/1.0
	Guaranteed	0.95~1.25	≥ 33.8	0	$\geq 34.8 \Delta$	--
HE160D	Typical	0.95~1.25	35.5	0	36.5	12/1.1
	Guaranteed	0.95~1.25	≥ 35.0	0	$\geq 36.0 \Delta$	--

" Δ " $T_A = 24 \pm 1^\circ\text{C}$;

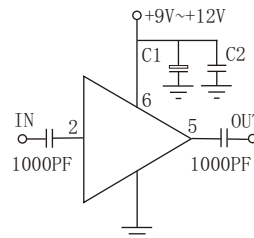
Maximum Rating

- DC Voltage :
- HE160A: 10VDC
 - HE160B/C: 11VDC
 - HE160D: 13VDC
- 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 (HE160D)

