

Features

- Frequency Range: 100~600MHz
- Low Noise: 1.7dB(Typ)
- Active Bias Design Supply Temperature Compensation
- Standard Hermetic Package QF004A
- Operating Temperature Range: -55°C~+85°C

Electrical (50 Ω , $V_{CC}=+15V$, $T_A=-55^{\circ}C \sim +85^{\circ}C$)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	$f_L \sim f_H$	MHz	100~600	20~600
Gain	Gp	dB	≥ 10	11
Gain Flatness	ΔGp	dB	≤ 1	0.5
Noise Figure 1	Fn	dB	$\leq 2.5 \Delta$	2.3
Noise Figure 2	Fn	dB	$\leq 2.0 \Delta$	1.7
Input VSWR	VSWRi	--	$\leq 2.0:1 \Delta$	1.5:1
Output VSWR	VSWRo	--	$\leq 2.0:1 \Delta$	1.5:1
For 1dB Compression	P_{-1}	dBm	$\geq 27.0^* \Delta$	--
Supply Current	I_{CC}	mA	≤ 180	160

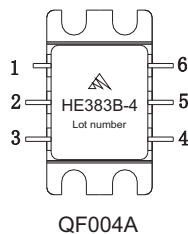
Note: “*” $f=300$ MHz. “ Δ ” $T_A=24 \pm 1^{\circ}C$. Fn(20MHz):6.8dB.
Noise figure 1:100~200MHz. 2:200~600MHz.

Maximum Ratings

Power supply: +16V_{DC}

RF input: +20dBm

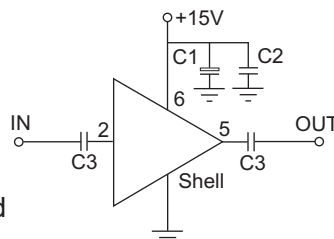
Storage Temp: +125°C



QF004A

Application Notes

1. Typical application shown as right, $C_1=3.3 \sim 22 \mu F$, $C_2=3300 \sim 6800 pF$, $C_3=1000 \sim 10000 pF$.
2. ESD observe handling precautions.
3. Connectorized package (SMA-3) available.
4. See assembly section for outline and mounting information.



Typical Curves

