

Features

- Frequency Range: 20~1000MHz(typ)
- Gain: 13dB(typ)
- IP3(out): 44dBm@20dBm/tone(typ)
- P-1: 30dBm
- Standard Hermetic Package SP-1A
- Operating Temperature Range: -55°C~+85°C

Electrical (50 Ω , V_{CC} =+12V, T_A =-55°C~+85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	$f_L \sim f_H$	MHz	20~1000	10~1000
Gain	Gp	dB	≥ 12.0	13.0
Gain Flatness	ΔGp	dB	$\leq \pm 0.5$	± 0.3
Noise Figure	F _n	dB	$\leq 5.0 \Delta$	3.0
Input VSWR	VSWR _i	--	$\leq 2.0:1 \Delta$	1.8:1
Output VSWR	VSWR _o	--	$\leq 2.0:1 \Delta$	1.6:1
For 1dB Compression	P-1	dBm	$\geq 29.0^* \Delta$	30.0
Supply Current	I _{CC}	mA	--	220

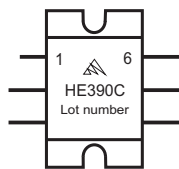
Note: “*” f=500 MHz. “ Δ ” $T_A=24 \pm 1^\circ\text{C}$.

Maximum Ratings

Power supply: +14V_{DC}

RF input: +20dBm

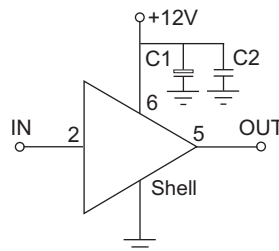
Storage Temp: +125°C



SP-1A

Application Notes

1. Typical application shown as right,
 $C_1=3.3 \sim 22 \mu\text{F}$; $C_2=3300 \sim 6800\text{pF}$.
2. Pay attention to heat dispersion.
3. Connectorized package (SMA-3) available.
4. See assembly section for outline and mounting information.



Typical Curves

