

Features

- Frequency Range: 10~500MHz
- P-1: 27dBm
- Standard Hermetic Package SP-1A
- 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	20~500	10~500
Gain	Gp	dB	≥ 17.0	18.0
Gain Flatness	ΔG_p	dB	$\leq 1.5 \Delta$	0.8
Noise Figure	F _n	dB	$\leq 6.5 \Delta$	6.0
Input VSWR	VSWR _i	--	$\leq 2.0:1 \Delta$	1.7:1
Output VSWR	VSWR _o	--	$\leq 2.0:1 \Delta$	1.7:1
For 1dB Compression	P ₋₁	dBm	$\geq 27.0^* \Delta$	27.5
Supply Current	I _{CC}	mA	--	180

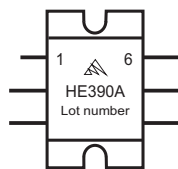
Note: “*” f=300 MHz. “ Δ ” $T_A=24 \pm 1^{\circ}C$.

Maximum Ratings

Power supply: +17V_{DC}

RF input: +15dBm

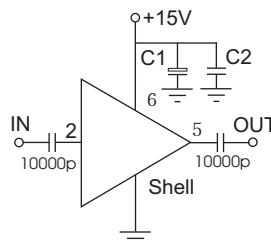
Storage Temp: +125°C



SP-1A

Application Notes

1. Typical application shown as right, $C_1=3.3 \sim 22 \mu F$; $C_2=3300 \sim 6800 pF$.
2. 30dBm output power can be offered (more than 18VDC).
3. See assembly section for mounting information.
4. Pay attention to heat dispersion.
5. Connectorized package(SMA-3) available.



Typical Curves

