

Features

- Frequency Range: 20~520MHz(typ)
- Gain: 16.5dB(typ)
- IP3(out): 43dBm(typ)
- P-1: 29dBm
- 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 ~f _H	MHz	20~520	20~550
Gain	G _p	dB	≥15.0	16.5
Gain Flatness	Δ G _p	dB	≤1.0 Δ	0.6
Noise Figure	F _n	dB	≤3.5 Δ	2.3
Input VSWR	VSWR _i	--	≤2.0:1 Δ	1.9:1
Output VSWR	VSWR _o	--	≤2.0:1 Δ	1.7:1
For 1dB Compression	P ₋₁	dBm	≥28.0* Δ	29.0
Supply Current	I _{CC}	mA	--	180

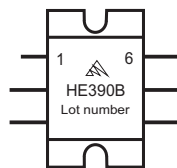
Note: 1) “*” f=300 MHz. “Δ” T_A=24±1°C.

Maximum Ratings

Power supply: +14V_{DC}

RF input: +17dBm

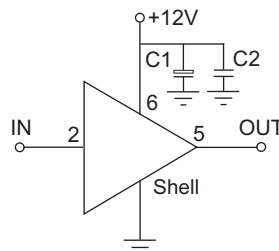
Storage Temp: +125°C



SP-1A

Application Notes

1. Typical application shown as right, C₁=3.3~22 μF ; C₂=3300~6800pF.
2. Pay attention to heat dispersion.
- 3.Connectorized package (SMA-3) available.
4. 3W amplifier available.
- 5.See assembly section for outline and mounting information.



Typical Curves

