

Features

- Frequency Range: 1~110MHz(typ)
- Gain: 20dB(typ)
- IP3(out): 40dBm(typ)
- 27dBm Typical 1dB Compression
- Standard Hermetic Package SP-1A
- Operating Temperature Range: -55°C~+85°C

Electrical (50 Ω, V_{CC}=+15V, T_A=-55°C~+85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f _L ~f _H	MHz	3~50	1~110
Gain	G _p	dB	≥17.0	20.0
Gain Flatness	Δ G _p	dB	≤1.0 Δ	0.4
Noise Figure	F _n	dB	≤6.0 Δ	3.7
Input VSWR	VSWR _i	--	≤2.0:1 Δ	1.5:1
Output VSWR	VSWR _o	--	≤2.0:1 Δ	1.5:1
For 1dB Compression	Po(1dB)	dBm	≥27.0* Δ	27.5
Supply Current	I _{CC}	mA	--	180

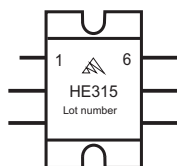
Note: “*” f=30MHz. “Δ” T_A=24±1°C.

Maximum Ratings

Power supply: +17V_{DC}

RF input: +15dBm

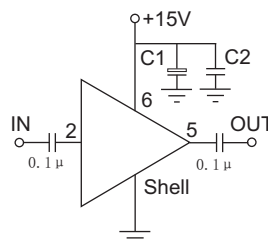
Storage Temp: +125°C



SP-1A

Application Notes

1. Typical application shown as right, C₁=3.3~22 μF, C₂=1000~3300pF.
2. 30dBm output power can be offered (more than 18VDC).
3. See assembly section for mounting information.
4. Connectorized package (SMA-3) available.
5. Pay attention to heat dispersion.



Typical Curves

