

Features

- Frequency Range: 10~500MHz
- 27dBm Typical 1dB Compression
- Standard Hermetic Package
- Operating Temperature Range: -55°C ~ +85°C

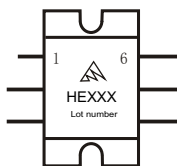
Specifications (50 Ω , $V_{CC} = +15V$, $T_A = -55^\circ C \sim +85^\circ C$)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	$f_L \sim f_H$	MHz	20~500	10~500
Gain	G_p	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
Output Power @ 1dB Compression	P_{-1}	dBm	$\geq 27.0 * \Delta$	27.5
DC Current	I_{CC}	mA	—	180

* $f = 300MHz$; “ Δ ” $T_A = 24 \pm 1^\circ C$;

Maximum Rating

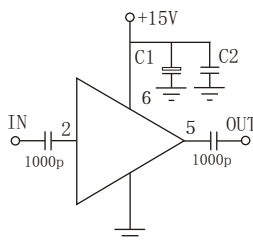
DC Voltage : +20VDC
RF Input: +15dBm
Storage Temp: +125°C



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. Connectorized package(SMA-3)available
5. Pay attention to heat dispersion.



Typical Curves

