

## Features

- Frequency Range: 1~100MHz
- 18dBm Typical 1dB Compression
- IP<sub>3</sub>(out): 30dBm(Typical)
- Standard Hermetic Package
- Operating Temperature Range: -55°C ~ +85°C

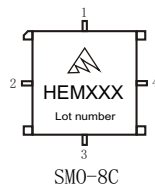
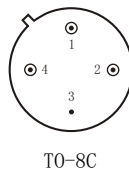
## Specifications (50 Ω, V<sub>CC</sub> = +12V, T<sub>A</sub> = -55°C ~ +85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f <sub>L</sub> ~f <sub>H</sub>	MHz	1~100	—
Gain	G <sub>p</sub>	dB	≥17.0	18.0
Gain Flatness	ΔG <sub>p</sub>	dB	≤±0.5	±0.3
Noise Figure	F <sub>n</sub>	dB	≤4.5 Δ	4.0
Input VSWR	VSWR <sub>i</sub>	—	≤2.0:1	1.7:1
Output VSWR	VSWR <sub>o</sub>	—	≤2.0:1	1.7:1
Output Power @ 1dB Compression	P <sub>-1</sub>	dBm	≥17.0* Δ	18.0
DC Current	I <sub>CC</sub>	mA	—	58

\*f = 50MHz; “Δ” T<sub>A</sub> = 24 ± 1°C;

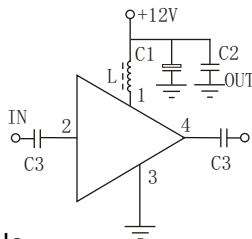
## Maximum Rating

DC Voltage : +14V<sub>DC</sub>  
 RF Input: +10dBm  
 Storage Temp: +125°C



## Application Notes

1. Typical application shown as right, C<sub>1</sub> = 22~47 μF ; C<sub>2</sub> = 1000~3300pF ; C<sub>3</sub> = 0.1 μF ; L = 130 μH (RF choke);
2. See assembly section for mounting information
3. Connectorized package(SMA-1) available



## Typical Curves

