

### Features

- Frequency Range: 30~1000MHz
- Active Bias Design Supply Temperature Compensation
- Low Noise: 1.5dB(Typical)
- Standard Hermetic Package TO-8C, SMO-8C
- Operating Temperature Range: -55°C ~ +85°C

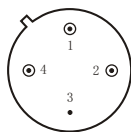
### Specifications (50 Ω, V<sub>CC</sub> = +5V, T<sub>A</sub> = -55°C ~ +85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f <sub>L</sub> ~f <sub>H</sub>	MHz	30~1000	30~1000
Gain	G <sub>p</sub>	dB	≥17.0	19
Gain Flatness	ΔG <sub>p</sub>	dB	≤±1.0	±0.5
Noise Figure	F <sub>n</sub>	dB	≤2.0 Δ	1.2
Input VSWR	VSWR <sub>i</sub>	---	≤2.0:1 Δ	1.7:0
Output VSWR	VSWR <sub>o</sub>	---	≤2.0:1 Δ	1.7:0
Output Power @ 1dB Compression	P <sub>-1</sub>	dBm	≥15.0* Δ	17.0
DC Current	I <sub>CC</sub>	mA	---	55

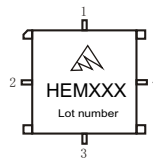
\*f = 600MHz; “Δ” T<sub>A</sub> = 24 ± 1°C;

### Maximum Rating

- DC Voltage : +6Vdc
- RF Input: +10dBm
- Storage Temp: +125°C



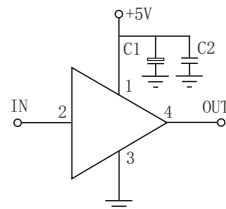
TO-8C



SMO-8C

### Application Notes

1. Typical application shown as right, C<sub>1</sub> = 3.3~22 μF ; C<sub>2</sub> = 3300~6800pF;
2. See assembly section for mounting information
3. Connectorized package(SMA-1) available
4. ESD observe handling precautions



### Typical Curves

