



### Features

- Frequency Range: 20~600MHz
- Low Noise: 1.5dB(Typical)
- Standard Hermetic Package TO-8C, SMO-8C
- Operating Temperature Range: -55°C ~ +85°C

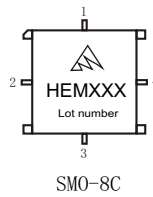
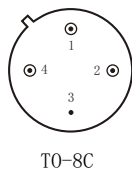
### Specifications (50 Ω, V<sub>CC</sub> = +15V, T<sub>A</sub> = -55°C ~ +85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f <sub>L</sub> ~f <sub>H</sub>	MHz	20~600	20~600
Gain	G <sub>p</sub>	dB	≥13	14
Gain Flatness	ΔG <sub>p</sub>	dB	≤1	0.5
Noise Figure	F <sub>n</sub>	dB	≤2.0 Δ	1.5
Input VSWR	VSWR <sub>i</sub>	---	≤2.0:1 Δ	1.8:1
Output VSWR	VSWR <sub>o</sub>	---	≤2.0:1 Δ	1.4:1
Output Power @ 1dB Compression	P <sub>-1</sub>	dBm	≥24.0* Δ	24.5
DC Current	I <sub>CC</sub>	mA	≤130	100

\*f=300MHz; “Δ” T<sub>A</sub>=24±1°C;

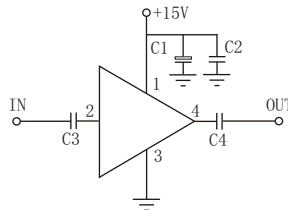
### Maximum Rating

- DC Voltage : +16V<sub>DC</sub>
- RF Input: +18dBm
- Storage Temp: +125°C



### Application Notes

1. Typical application shown as right, C<sub>1</sub>=10~33 μF ; C<sub>2</sub>=3300~6800pF ; C<sub>3</sub>,C<sub>4</sub>=1000~10000pF;
2. See assembly section for mounting information
3. Connectorized package(SMA-1) available
4. ESD observe handling precautions



### Typical Curves

