



### Features

- Frequency Range: 10~500MHz
- Active Bias Design Supply Temperature Compensation
- Standard Hermetic Package
- Operating Temperature Range: -55°C ~ +85°C

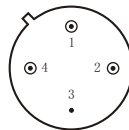
### Specifications (50 Ω, V<sub>CC</sub> = +15V, T<sub>A</sub> = -55°C ~ +85°C)

| Parameter                      | Symbol                         | Unit | Guaranteed | Typical |
|--------------------------------|--------------------------------|------|------------|---------|
| Frequency Range                | f <sub>L</sub> ~f <sub>H</sub> | MHz  | 10~500     | 10~500  |
| Gain                           | G <sub>p</sub>                 | dB   | ≥15.0      | 19.0    |
| Gain Flatness                  | ΔG <sub>p</sub>                | dB   | ≤±0.5      | ±0.3    |
| Noise Figure                   | F <sub>n</sub>                 | dB   | ≤2.0 Δ     | 1.9     |
| Input VSWR                     | VSWR <sub>i</sub>              | --   | ≤2.0:1 Δ   | 1.2:1   |
| Output VSWR                    | VSWR <sub>o</sub>              | --   | ≤2.0:1 Δ   | 1.6:1   |
| Output Power @ 1dB Compression | P <sub>-1</sub>                | dBm  | ≥2.0 * Δ   | --      |
| DC Current                     | I <sub>CC</sub>                | mA   | --         | 12      |

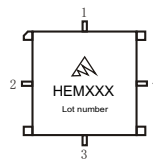
- 1) "\*"f = 100MHz; "Δ" T<sub>A</sub> = 24 ± 1°C;
- 2) The G<sub>p</sub> and P<sub>-1</sub> will be reduced 0.7dB and 1.3dB respectively under operating at 12VDC (I<sub>CC</sub> = 9mA T<sub>YP</sub>).

### Maximum Rating

DC Voltage : +18VDC  
 RF Input: +10dBm  
 Storage Temp: +125°C



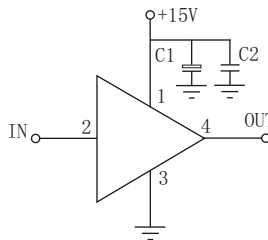
TO-8C



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. Interchanged directly with UTO-510 from HP Company;
3. See assembly section for mounting information
4. Connectorized package(SMA-1) available



### Typical Curves

