

### Features

- Frequency Range: 10~1000MHz
- Active Bias Design Supply Temperature Compensation
- Standard Hermetic Package
- Operating Temperature Range: -55°C ~ +85°C

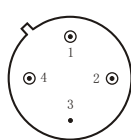
### Specifications (50 $\Omega$ , $V_{CC} = +5V$ , $T_A = -55^\circ C \sim +85^\circ C$ )

| Parameter                      | Symbol            | Unit | Guaranteed           | Typical   |
|--------------------------------|-------------------|------|----------------------|-----------|
| Frequency Range                | $f_L \sim f_H$    | MHz  | 10~1000              | 10~1000   |
| Gain                           | $G_p$             | dB   | $\geq 15.0$          | 16.0      |
| Gain Flatness                  | $\Delta G_p$      | dB   | $\leq \pm 0.5$       | $\pm 0.3$ |
| Noise Figure                   | $F_n$             | dB   | $\leq 3.0 \Delta$    | —         |
| Input VSWR                     | VSWR <sub>i</sub> | —    | $\leq 2.0:1$         | 1.8:1     |
| Output VSWR                    | VSWR <sub>o</sub> | —    | $\leq 2.0:1$         | 1.6:1     |
| Output Power @ 1dB Compression | $P_{-1}$          | dBm  | $\geq 10.0 * \Delta$ | 11.0      |
| DC Current                     | $I_{CC}$          | mA   | —                    | 30        |

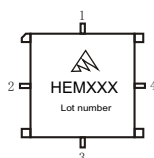
\* $f = 700\text{MHz}$ ; “ $\Delta$ ”  $T_A = 24 \pm 1^\circ C$ ;

### Maximum Rating

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



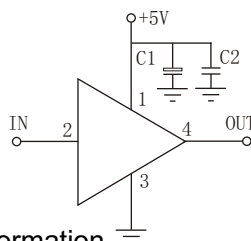
TO-8C



SMO-8C

### Application Notes

1. Typical application shown as right,  $C_1 = 3.3 \sim 22 \mu F$ ;  $C_2 = 3300 \sim 6800 pF$ ;
2. Interchanged directly with UTO-1007 from AVANTEK Company and A28-2 from W-J Company;
3. See assembly section for mounting information
4. Connectorized package(SMA-1)available



### Typical Curves

