



### Features

- Frequency Range: 20~500MHz
- Standard Hermetic Package
- Operating Temperature Range: -55°C ~ +85°C

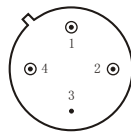
### Specifications (50 Ω, V<sub>CC</sub> = +15V, T<sub>A</sub> = -55°C ~ +85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f <sub>L</sub> ~f <sub>H</sub>	MHz	20~500	20~500
Gain	G <sub>p</sub>	dB	≥10.0	11.0
Gain Flatness	ΔG <sub>p</sub>	dB	≤1.0	0.5
Noise Figure	F <sub>n</sub>	dB	≤4.5 Δ	4.0
Input VSWR	VSWR <sub>i</sub>	—	≤2.0:1 Δ	1.7:1
Output VSWR	VSWR <sub>o</sub>	—	≤2.0:1 Δ	1.7:1
Output Power @ 1dB Compression	P <sub>-1</sub>	dBm	≥16.0 * Δ	—
DC Current	I <sub>CC</sub>	mA	—	45

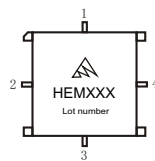
- 1) “\*”f = 400MHz; “Δ” T<sub>A</sub> = 24 ± 1°C;
- 2) The G<sub>p</sub> and P<sub>-1</sub> will be reduced 0.1dB and 2.3dB respectively under operating at 12VDC (I<sub>CC</sub> = 36mA Typ).

### Maximum Rating

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



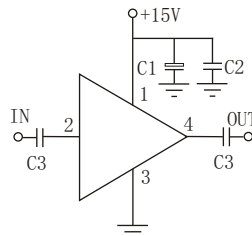
TO-8C



SMO-8C

### Application Notes

1. Typical application shown as right, C<sub>1</sub> = 3.3~22 μF; C<sub>2</sub> = 3300~6800pF; C<sub>3</sub> = 1000pF;
2. Interchanged directly with UTO-545 from HP Company;
3. See assembly section for mounting information
4. Connectorized package (SMA-1) available



### Typical Curves

