

## Features

- Frequency Range: 20~200MHz
- 18dBm Typical 1dB Compression
- Standard Hermetic Package
- Operating Temperature Range: -55°C ~ +85°C

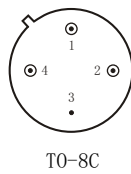
## Specifications (50 Ω, V<sub>CC</sub> = +12V, T<sub>A</sub> = -55°C ~ +85°C)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f <sub>L</sub> ~f <sub>H</sub>	MHz	20~200	20~250
Gain	G <sub>p</sub>	dB	≥ 17.0	18.0
Gain Flatness	ΔG <sub>p</sub>	dB	≤ ± 1.0 Δ	± 0.5
Noise Figure	F <sub>n</sub>	dB	≤ 4.5 Δ	4.2
Input VSWR	VSWR <sub>i</sub>	--	≤ 2.0:1 Δ	1.6:1
Output VSWR	VSWR <sub>o</sub>	--	≤ 2.0:1 Δ	1.6:1
Output Power @ 1dB Compression	P <sub>-1</sub>	dBm	≥ 17.0 * Δ	18.0
DC Current	I <sub>CC</sub>	mA	--	58

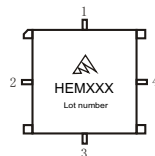
\*f = 160MHz; "Δ" T<sub>A</sub> = 24 ± 1°C;

## Maximum Rating

- DC Voltage : +14VDC
- RF Input: +10dBm
- Storage Temp: +125°C



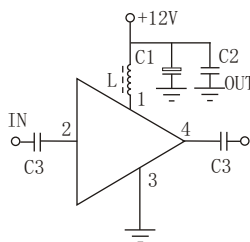
T0-8C



SM0-8C

## 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; L ≥ 20 μH (RF choke);
2. Interchanged directly with A82-1 from W-J Company;
3. See assembly section for mounting information
4. Connectorized package (SMA-1) available



## Typical Curves

