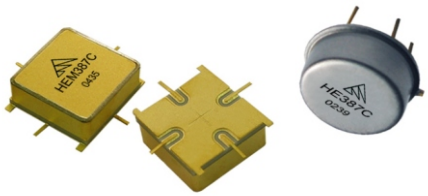
# HE387C/HEM387C
## Broadband Amplifier



## Features

- Frequency Range:100~700MHz
- Low Noise :2.5dB(Typical)
- High Efficiency: 16dBm /30mA(Typical)
- Active Bias Design Supply Temperature Compensation
- Standard Hermetic Package
- Operating Temperature Range:-55℃～+85℃

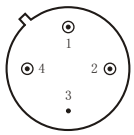
## Specifications (50Ω, $V_{CC}$ = +15V, $T_A$=-55℃～+85℃)

| Parameter | Symbol | Unit | Guaranteed | Typical |
|---|---|---|---|---|
| Frequency Range | $f_L$～$f_H$ | MHz | 100～700 | -- |
| Gain | Gp | dB | ≥20.0 | 21.0 |
| Gain Flatness | △Gp | dB | ≤1.0 Δ | 0.6 |
| Noise Figure | Fn | dB | ≤4.0 Δ | 2.5 |
| Input VSWR | VSWRi | -- | ≤2.0:1 Δ | 1.5:1 |
| Output VSWR | VSWRo | -- | ≤2.0:1 Δ | 1.5:1 |
| Output Power @ 1dB Compression | P-1 | dBm | ≥15.0 * Δ | 16.0 |
| DC Current | Icc | mA | -- | 30 |

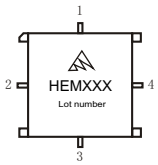
1)"*"f =400MHz; "△" $T_A$=24±1℃;
2)The Gp and P-1 wil be reduced 0.2dB and 2.5dB respectively under operating at 12VDC (Icc=25mA Typ)

## Maximum Rating

DC Voltage : +18VDC
RF Input:+7dBm
Storage Temp: +125℃



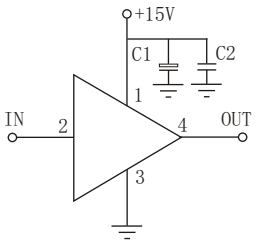
TO-8C



SMO-8C

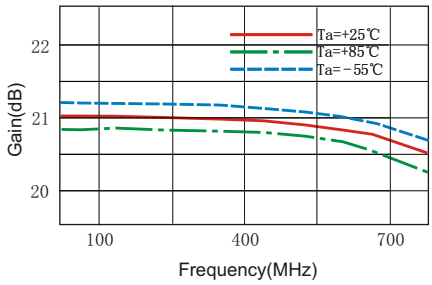
## Application Notes

1. Typical application shown as right, $C_1$=3.3～22μF ; $C_2$=3300～6800pF;
2. Interchanged directly with AM151 from M/A COM Company and A78 from W-J Company;
3. See assembly section for mounting information
4. Connectorized package(SMA-1)available

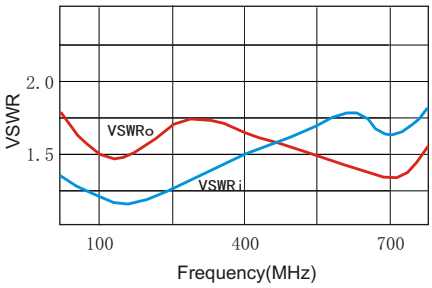



## Typical Curves

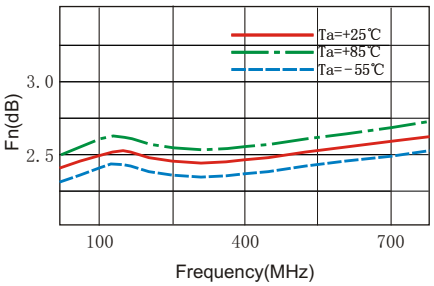
GAIN




VSWR




NOISE FIGURE




Output P1dB