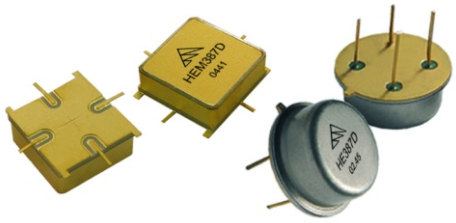
HE387D/HEM387D
Broadband Amplifier



Features

- Frequency Range:100~700MHz
- High Efficiency: 21dBm /55mA(Typical)
- Active Bias Design Supply Temperature Compensation
- Standard Hermetic Package
- Operating Temperature Range:-55℃～+85℃

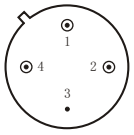
Specifications (50Ω, V_{CC} = +15V, T_A=-55℃～+85℃)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f_L～f_H	MHz	100～700	--
Gain	Gp	dB	≥21.0 Δ	22.0
Gain Flatness	△Gp	dB	≤1.0 Δ	0.6
Noise Figure	Fn	dB	≤4.5 Δ	3.8
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	≥20.0 *	21.0
DC Current	Icc	mA	--	55

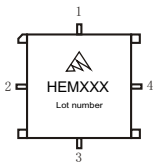
1)"*"f =200MHz; "△" T_A=24±1℃;
2)The Gp and P-1 wil be reduced 0.2dB and 2.5dB respectively under operating at 12VDC (Icc=45mA Typ)

Maximum Rating

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



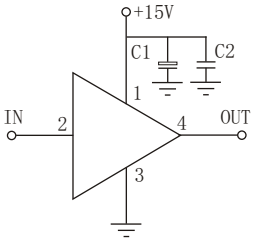
TO-8C



SMO-8C

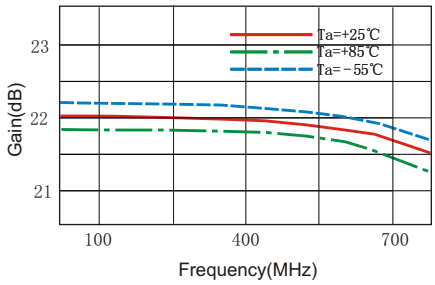
Application Notes

1. Typical application shown as right, C_1=3.3～22μF ; C_2=3300～6800pF;
2. Interchanged directly with A89 from W-J Company;
3. See assembly section for mounting information
4. Connectorized package(SMA-1) available

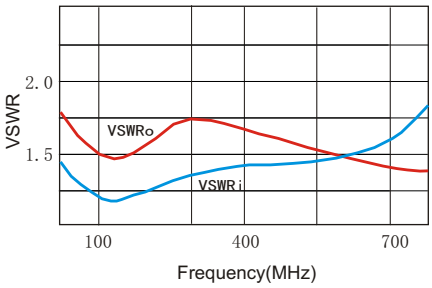


Typical Curves

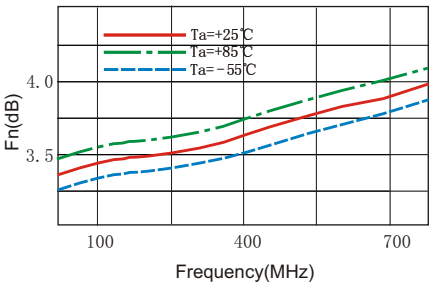
GAIN



VSWR



NOISE FIGURE



Output P1dB