HE394B/HEM394B
Broadband Amplifier



Features

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

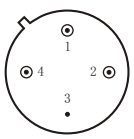
Specifications (50Ω,V_{CC} = +5V,T_A=-55℃～+85℃)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f_L～f_H	MHz	10～1000	10～1000
Gain	G_p	dB	≥15.0	16.0
Gain Flatness	△G_p	dB	≤±0.5	±0.3
Noise Figure	F_n	dB	≤4.5 △	--
Input VSWR	VSWRi	--	≤2.0:1	1.7:1
Output VSWR	VSWRo	--	≤2.0:1	1.6:1
Output Power @ 1dB Compression	P_{-1}	dBm	≥15.0*△	16.0
DC Current	I_{CC}	mA	--	60

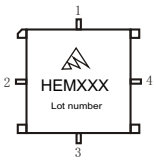
"*"f =700MHz; "△" T_A=24±1℃;

Maximum Rating

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



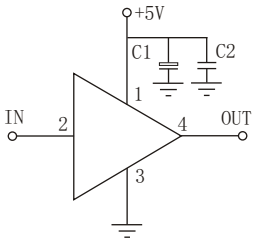
TO-8C



SMO-8C

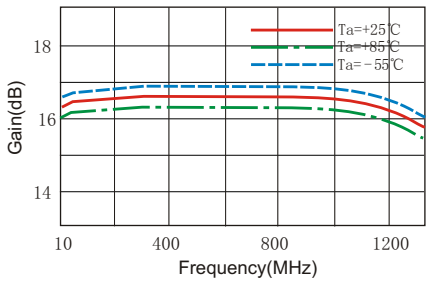
Application Notes

1. Typical application shown as right, C_1=3.3～22μF; C_2=3300～6800pF;
2. Interchanged directly with 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

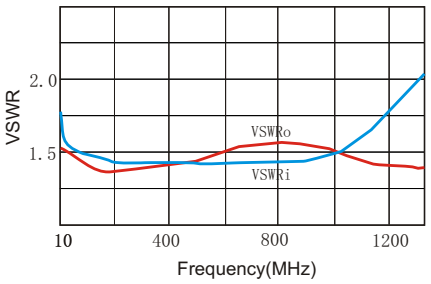


Typical Curves

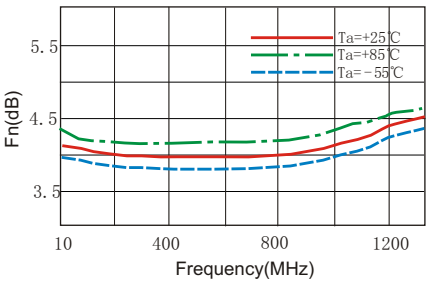
GAIN



VSWR



NOISE FIGURE



Output P1dB

