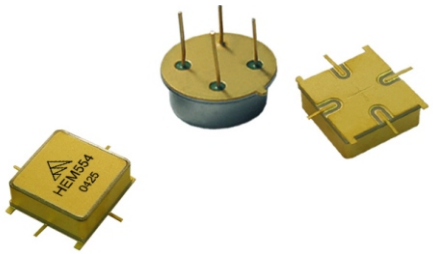
HE554/HEM554
Low Noise Amplifier



Features

- Frequency Range:2.0~2.5GHz
- Standard Hermetic Package
- Operating Temperature Range:-55℃～+85℃

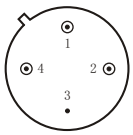
Specifications (50Ω, V_{CC} = +12V, T_A=-55℃～+85℃)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f_L～f_H	GHz	2.0～2.5	--
Gain	G_p	dB	≥22.0	24.0
Gain Flatness	△G_p	dB	≤±1.0	±0.5
Noise Figure	F_n	dB	≤1.5△	1.1
Input VSWR	VSWRi	--	≤2.5:1△	1.8:1
Output VSWR	VSWRo	--	≤2.5:1△	1.6:1
Output Power @ 1dB Compression	P_{-1}	dBm	≥10.0△	10.5
DC Current	I_{CC}	mA	--	65

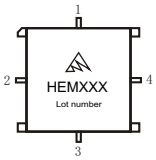
"△" T_A=24±1℃;

Maximum Rating

DC Voltage : +13.5VDC
RF Input:+10dBm
Storage Temp: +125℃



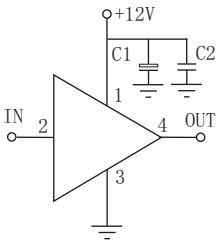
TO-8D



SMO-8D

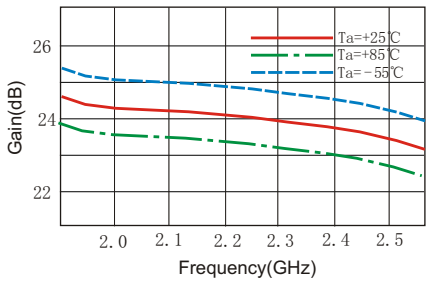
Application Notes

1. Typical application shown as right, C_1=10～33μF; C_2=3300～6800pF;
2. See assembly section for mounting information
3. Connectorized package(SMA-1)available
4. ESD observe handing precautions

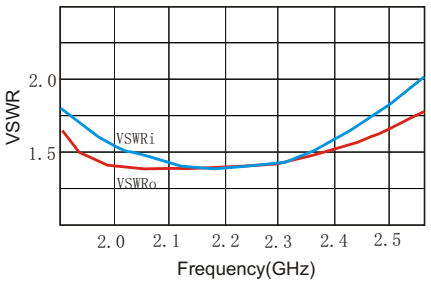


Typical Curves

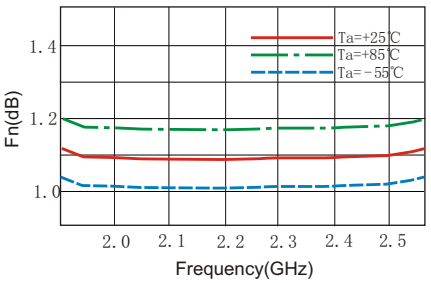
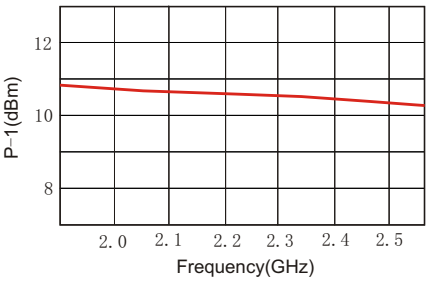
GAIN



VSWR



NOISE FIGURE



Output P1dB