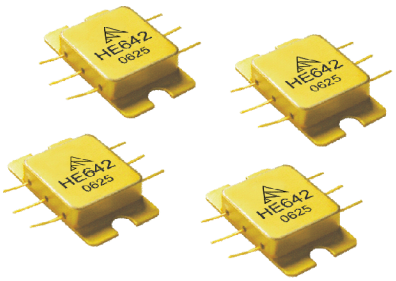
HE642
Medium Power Amplifier



Features

- Frequency Range:5.2~5.8GHz
- 21dBm Typical 1dB Compression
- Standard Hermetic Package
- Operating Temperature Range:-55℃～+85℃

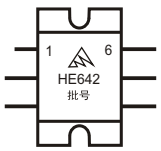
Specifications (50Ω, V_{CC} = +12V, T_A=-55℃～+85℃)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f_L～f_H	GHz	5.2～5.8	--
Gain	G_P	dB	≥15.0	17.0
Gain Flatness	△G_P	dB	≤±1.0△	±0.5
Noise Figure	F_n	dB	≤6.0	5.0
Input VSWR	VSWRi	--	≤2.0:1	1.8:1
Output VSWR	VSWRo	--	≤2.0:1	1.8:1
Saturation Output Power	P_0	dBm	≥20.0*△	21.0
DC Current	I_{CC}	mA	--	150

"*"f =5800MHz; "△" T_A=24±1℃;

Maximum Rating

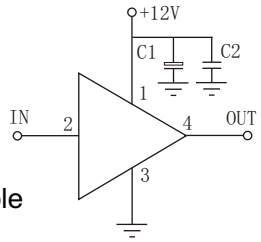
DC Voltage : +13.5VDC
RF Input:+13dBm
Storage Temp: +125℃



SP-3

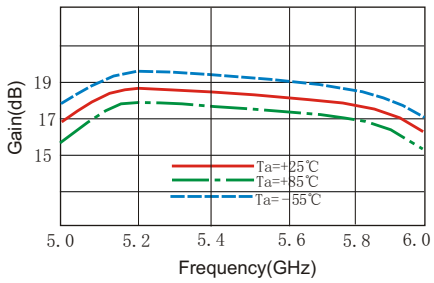
Application Notes

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. Pay attention to heat dispersion.

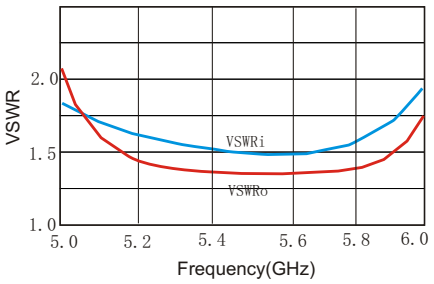


Typical Curves

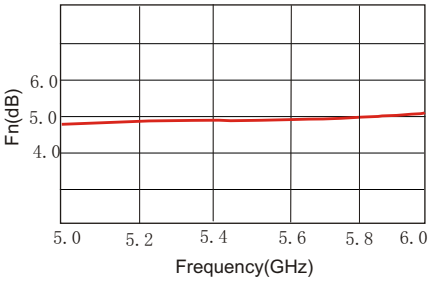
GAIN



VSWR



NOISE FIGURE



OUTPUT POWER

