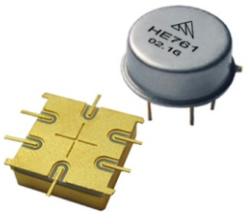
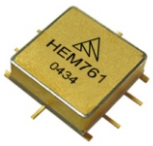
HE761/HEM761
VGC Amplifier





Features

- Frequency Range:20~500MHz
- Active Bias Design Supply Temperature Compensation
- Standard Hermetic Package
- Operating Temperature Range:-55℃～+85℃

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

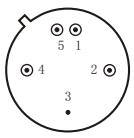
Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f_L～f_H	MHz	100～500	20～500
Gain	G_p	dB	≥17.0	18.5
Gain Flatness	△G_p	dB	≤±1.0	±0.5
Noise Figure	F_n	dB	≤5.0△	4.0
VSWR	VSWR	--	≤2.5:1	1.8:1
VGC Range	Att	dB	≥30.0	--
Output Power @ 1dB Compression	P_{-1}	dBm	≥1.0*△	5.0
DC Current	I_{CC}	mA	--	35
Turning Voltage	Vt	V	--	0~12/0~5

1)"*"f =200MHz; "△" T_A=24±1℃;

2) Gp and Fn are tested at Vt=12VDC.

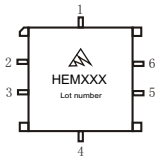
Maximum Rating

DC Voltage : +15VDC
RF Input:+10dBm
Storage Temp: +125℃



TO-8G

1. Vt 4.RFout
2.RFin 5.Vcc
3.GND

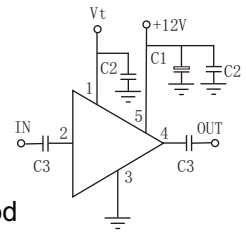


SMO-8E

1.RFin 5.Vcc
2.3.N.C 6. Vt
4.RFout

Application Notes

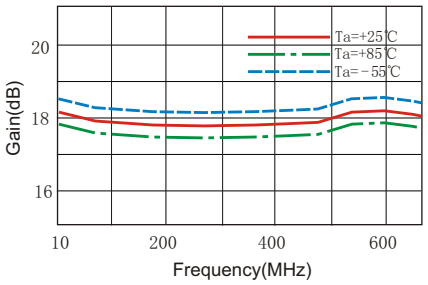
1. Typical application shown as right,
   C_1=3.3～22μF ; C_2=3300～6800pF;
   C_3=3300pF
2. Anti-electrostatic measures should be adopted.
3. See assembly section for mounting method
4. Connectorized package(SMA-4)



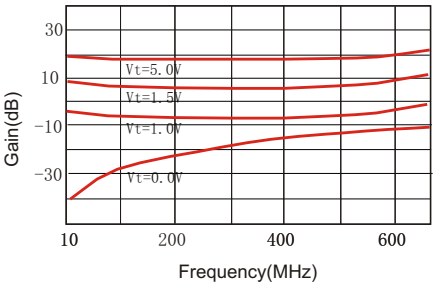
(TO-8G)

Typical Curve

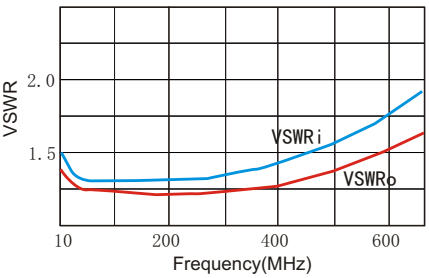
GAIN



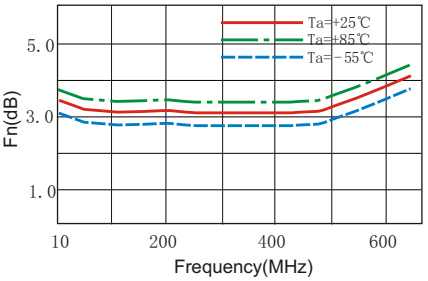
GAIN VS Vt



VSWR



NOISE FIGURE



Output P1dB