HE072B/HEM072B
Limiting Amplifier



Features

- Frequency Range:10~400MHz
- Gain:11.0dB(Typical)
- Output Limiting Level:-3.5dBm(Typical)
- Standard Hermetic Package TO-8C,SMO-8C
- Operating Temperature Range:-55℃～+85℃

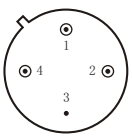
Specifications (50Ω,V_{CC} = +5V,-55℃≤T_A≤+85℃)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f_L～f_H	MHz	10～400	10～400
Gain	G_p	dB	9.0	11.0
Gain Flatness	△G_p	dB	±0.5	±0.3
Noise Figure	F_n	dB	7.0△	6.0
Output Limiting level	P_0	dBm	-5.0	-4.0
VSWR	VSWR	--	2.0:1	1.3:1
Even Order Harmonic Suppression	--	dBc	20.0△	25.0
DC Current	I_{CC}	mA	15.0	12.0

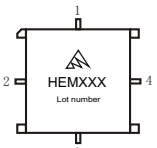
"△" T_A=24±1℃;

Maximum Rating

DC Voltage : +16.0VDC
RF Input:+10dBm
Storage Temp: +125℃



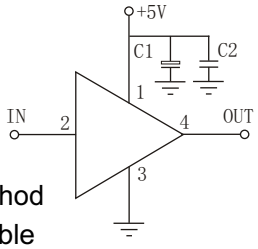
TO-8C



SMO-8C

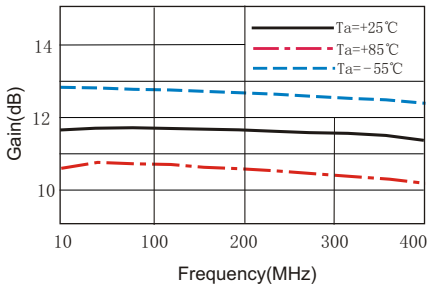
Application Notes

1. Typical application shown as right, C_1=22～47μF; C_2=1000～3300pF;
2. Interchanged directly with UTL-503 from HP Company;
3. See assembly section for mounting method
4. Connectorized package(SMA-1) available

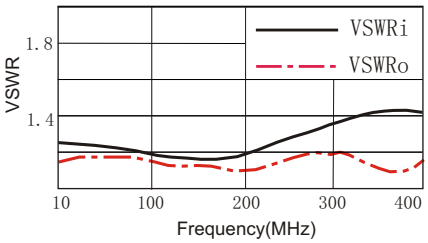


Typical Curves

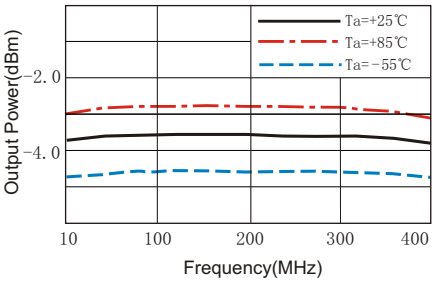
GAIN



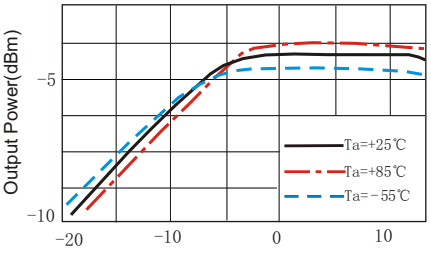
VSWR



OUTPUT POWER



INPUT POWER VS. OUTPUT POWER



PHASE SHIFT VS. INPUT POWER

