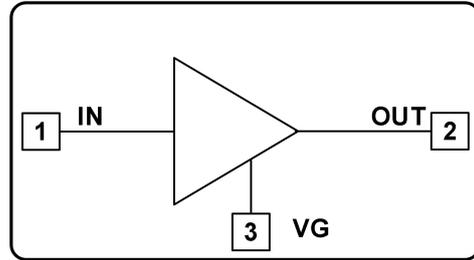




### 主要特点

- 工作频率: 0.01 –6 GHz
- 增益: 25 dB@0.5 GHz
- 噪声系数: 1.4 dB
- 直流供电: +5V @80 mA
- 反向隔离: 28 dB
- P1dB: +21 dBm
- 芯片尺寸: 0.85×0.84× 0.1 mm<sup>3</sup>

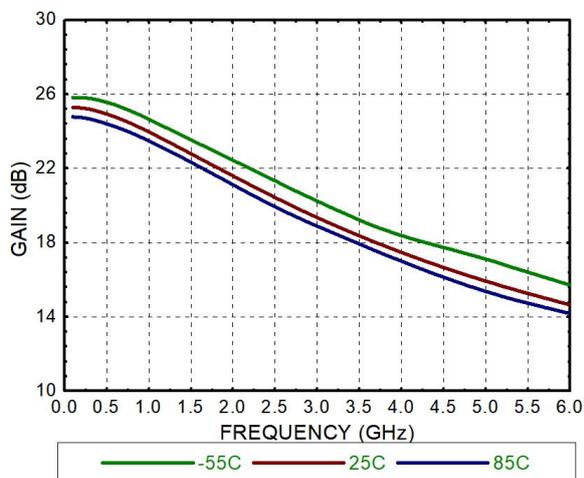
### 功能框图



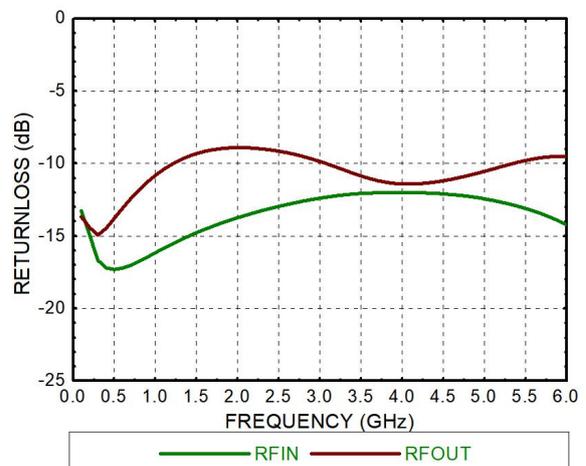
### 性能指标 ( $T_A = +25^\circ\text{C}$ , $V_D = +5\text{ V}$ , $I_D = 80\text{ mA}$ )

参数	最小	典型	最大	单位
工作频段	0.01 - 6			GHz
增益		20		dB
输入回波损耗		13		dB
输出回波损耗		10		dB
反向隔离度		28		dB
输出功率 1dB 压缩点		21		dBm
噪声系数		1.4		dB
输出 IP3		38		dBm
工作电流		80		mA

### 增益 vs. 温度

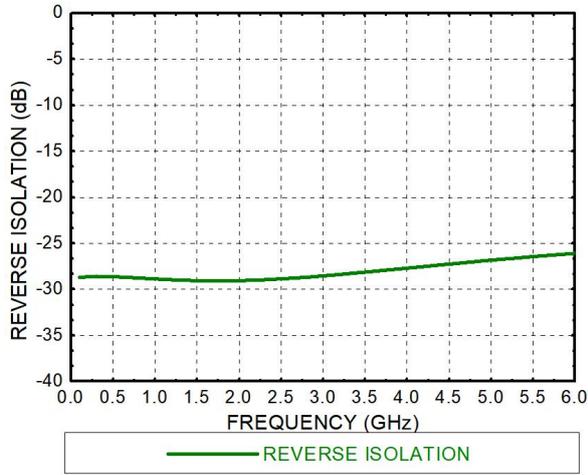


### 回波损耗

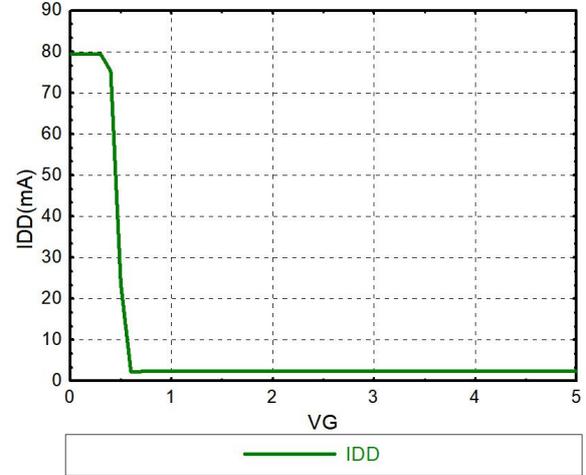




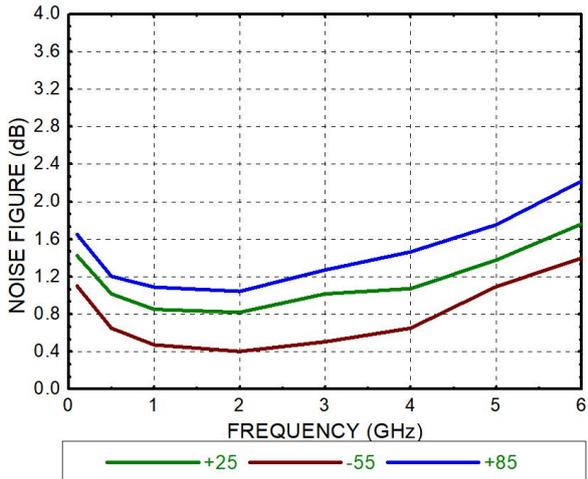
### 反向隔离



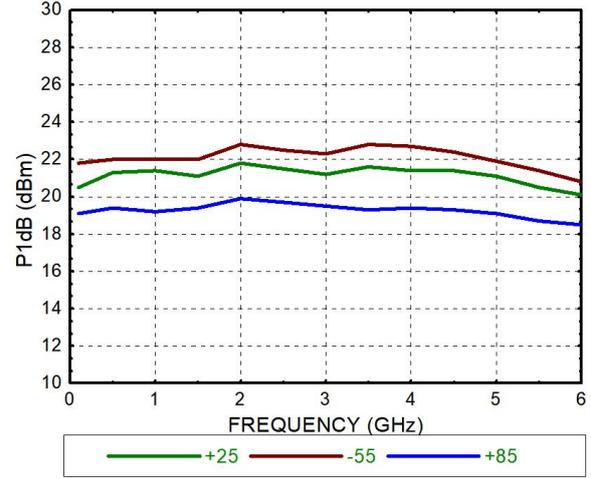
### IDD vs. VG



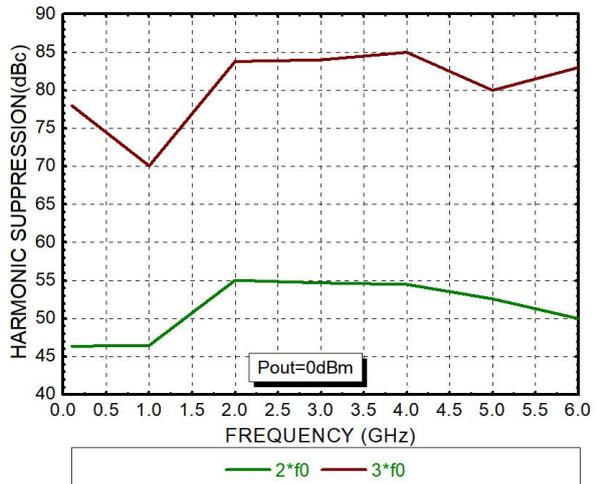
### 噪声



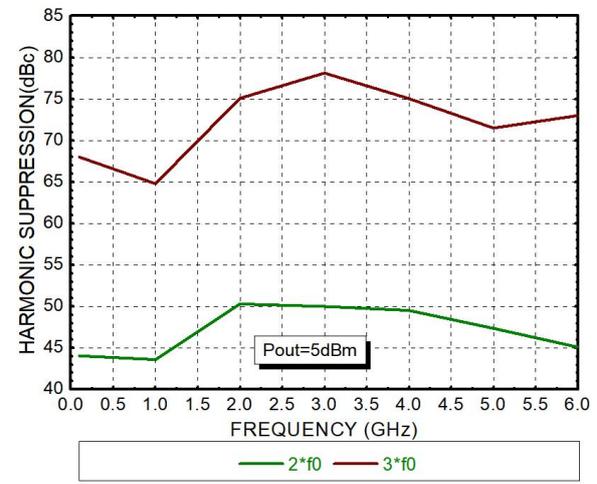
### 输出功率P1dB



### 谐波抑制

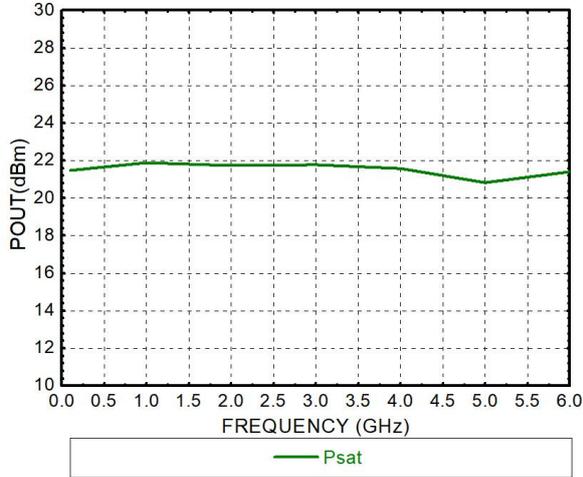


### 谐波抑制

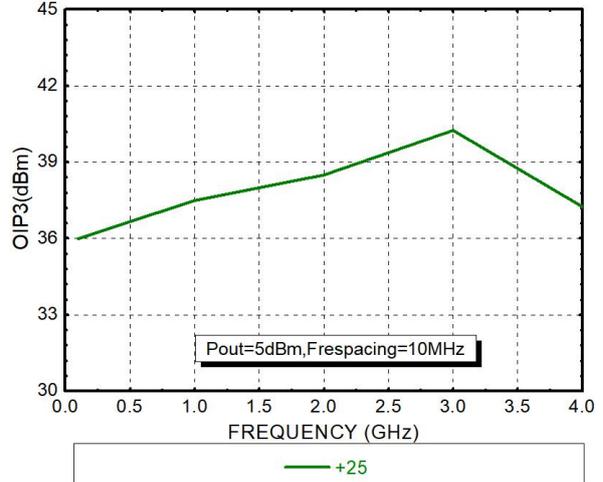




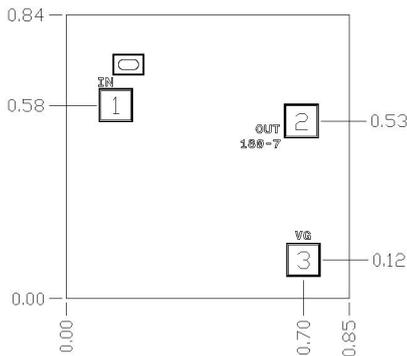
### 输出饱和功率



### OIP3

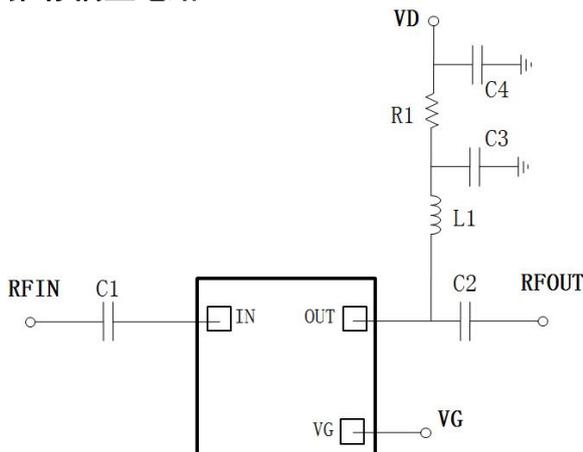


### 物理参数



焊盘序号	功能	描述
1	IN	该焊盘是 DC 耦合，片上无隔直电容，匹配至 50 Ohm
2	OUT	该焊盘是 DC 耦合，片上无隔直电容，匹配至 50 Ohm
3	VG	芯片的关断控制焊盘，若无需此功能，该焊盘悬空即可
芯片背面	GND	芯片背面必须连接至 RF/DC 地

### 推荐偏置电路



频率	30MHz	100MHz	1GHz	2GHz
L1(nH)	820	270	47	22
C1/C2(pF)	1000	200	20	10
C3/C4(uF)	0.001/0.01			
R1(ohm)	0			

### 极限参数

射频输入功率: +17dBm

储存温度: -65~+150°C

输出端口供电: +6V

工作温度: -55~+85°C