

Model: TLP400M8G-35-20
Power Amplifier
400MHz-8GHz, Gain: 35dB, P1dB: 20dBm
Feature:

- Ultra Wide Band: 400MHz-8GHz
- Gain: 32dB Min
- P1dB Output Power: 20 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.4-8			GHz
增益 Gain	32	35		dB
增益平坦度 Gain Flatness		±2.0	±3.0	dB
线性输出功率P1dB	20	21		dBm
饱和输出功率Psat		22		dBm
谐波抑制@Pout=20dBm		-15		dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		12	15	V DC
直流电流 DC Supply Current		0.2	0.25	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

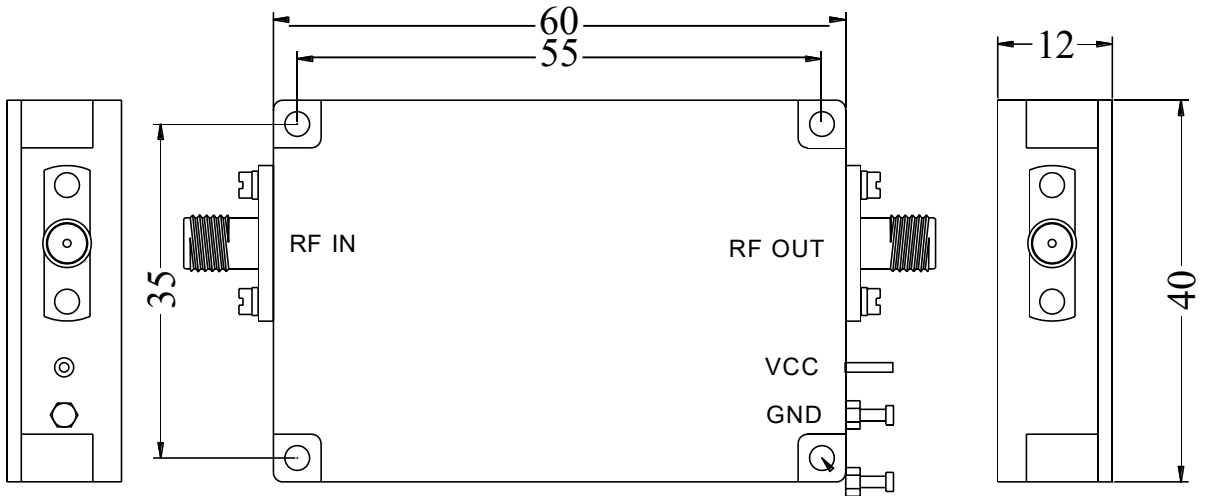
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	90X50X15	mm
重量 Weight	150	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	15
输入功率 RF INPUT POWER	0 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



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THRU

*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

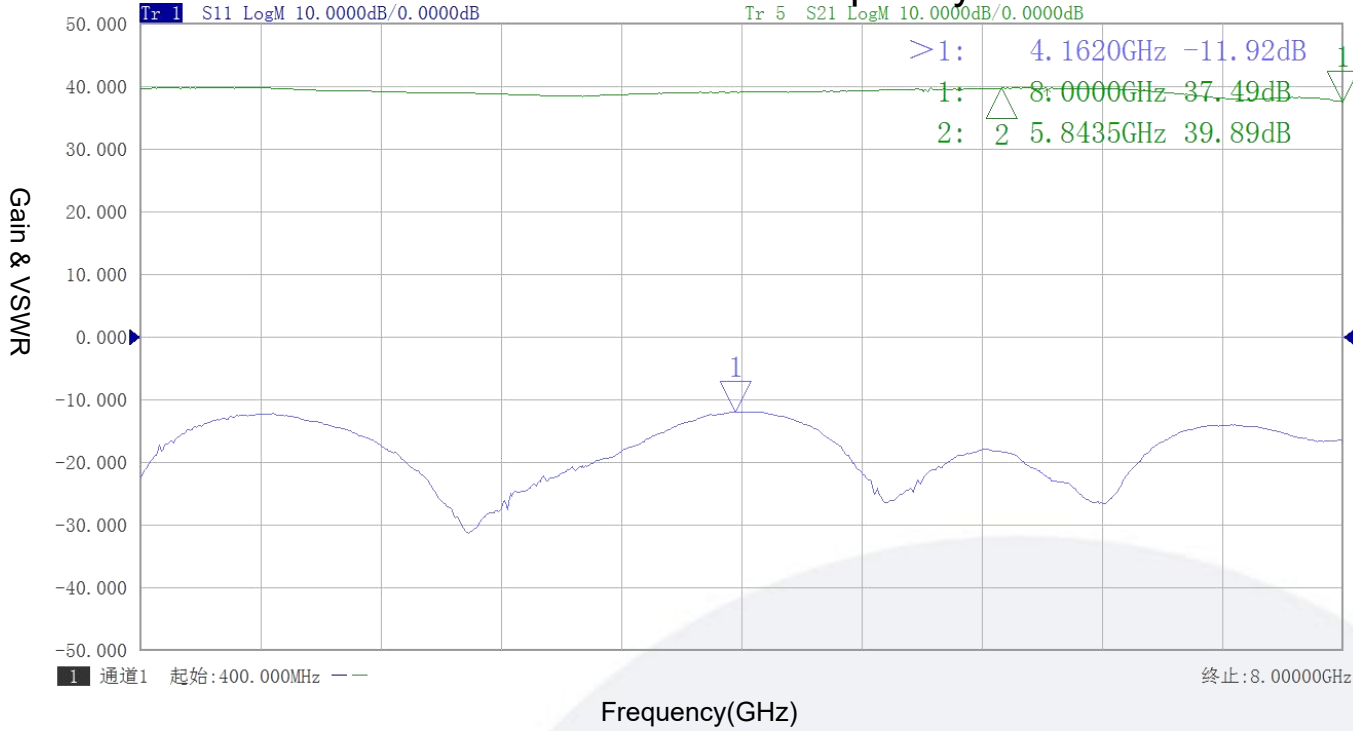
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

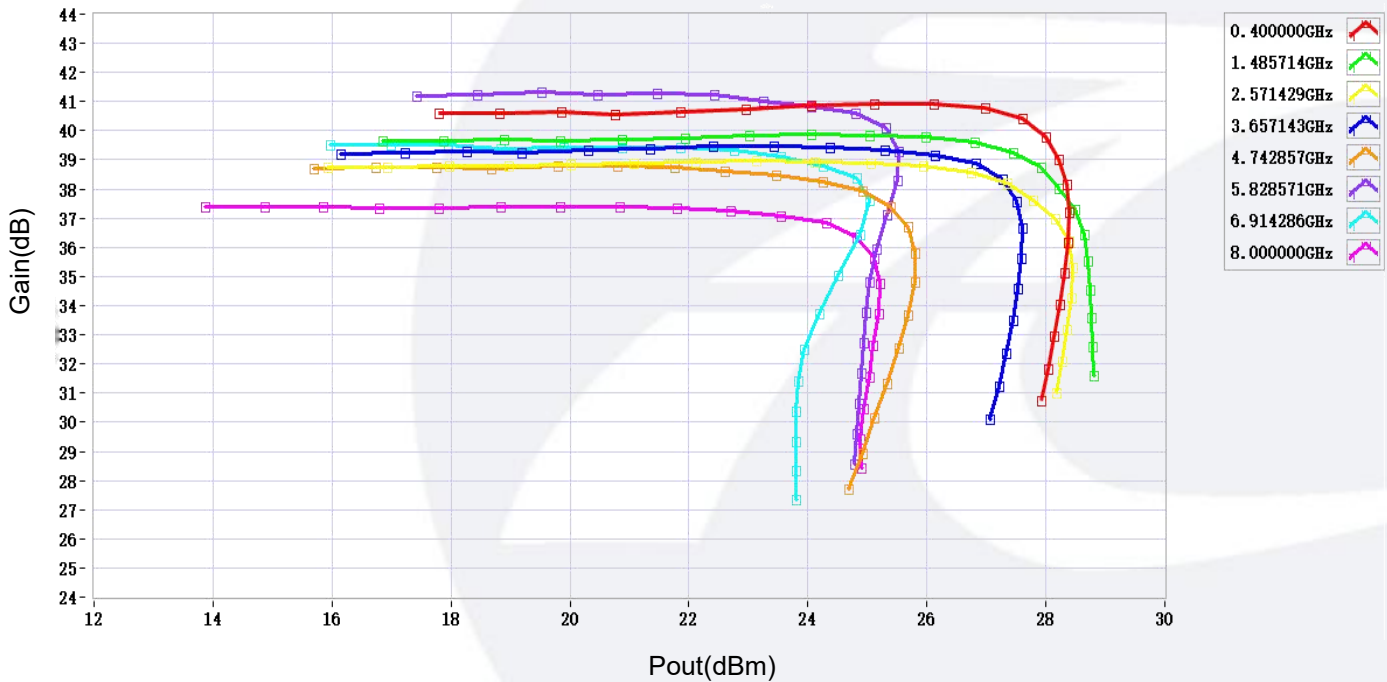
标准型号 Part Number	描述 Description	版本号Revision
TLPA400M8G-35-20	Power amplifier 400MHz-8GHz,Gain:35dB,P1dB:20dBm, 12V DC , Without Heatsink	Rev.1.0
TLPA400M8G-35-20-HS	Power amplifier 400MHz-8GHz,Gain:35dB,P1dB:20dBm, 12V DC , With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

Gain & VSWR vs Frequency

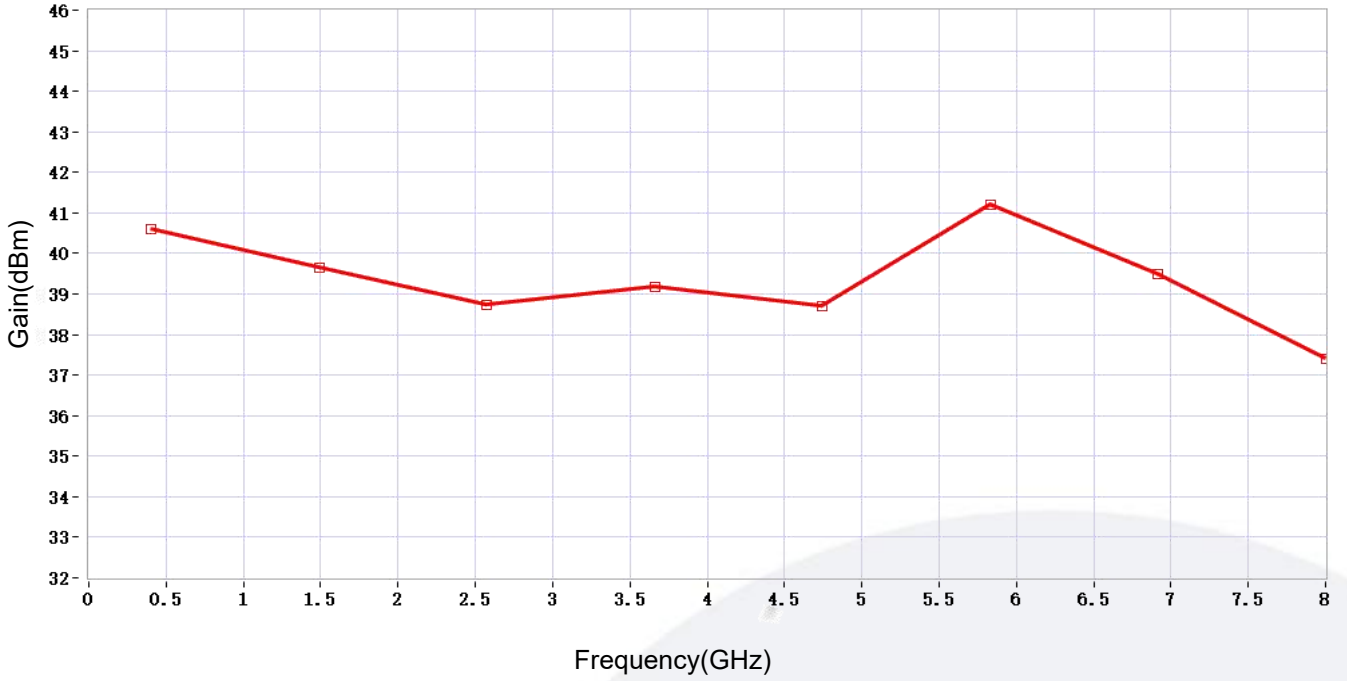


Gain vs Output Power

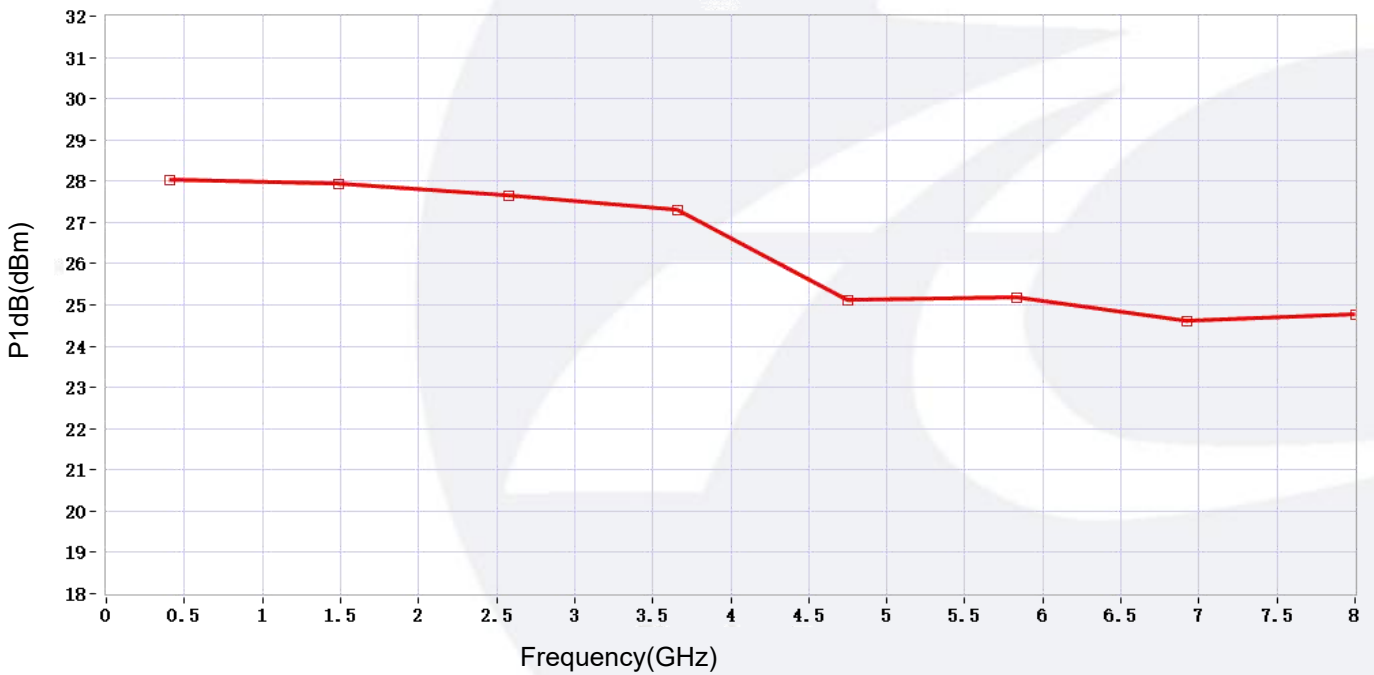


典型曲线 Typical Performance Data:

Gain vs Frequency

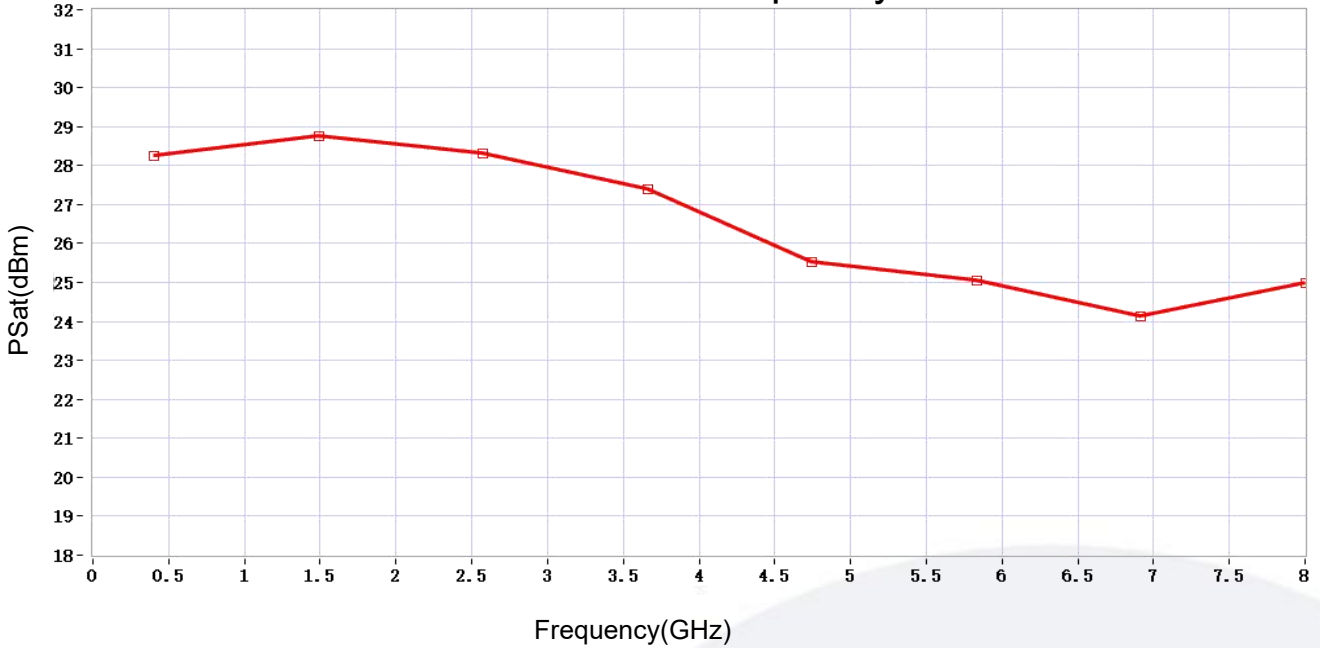


P1dB vs Frequency

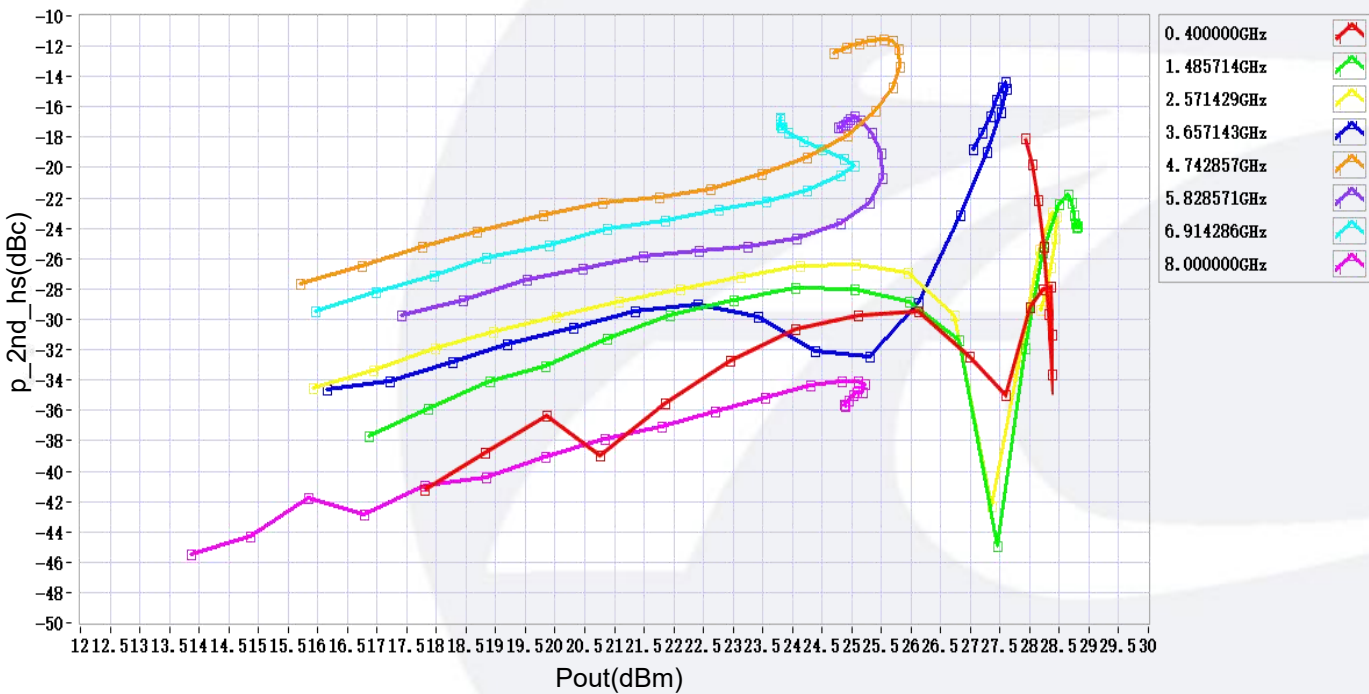


典型曲线 Typical Performance Data:

PSat vs Frequency

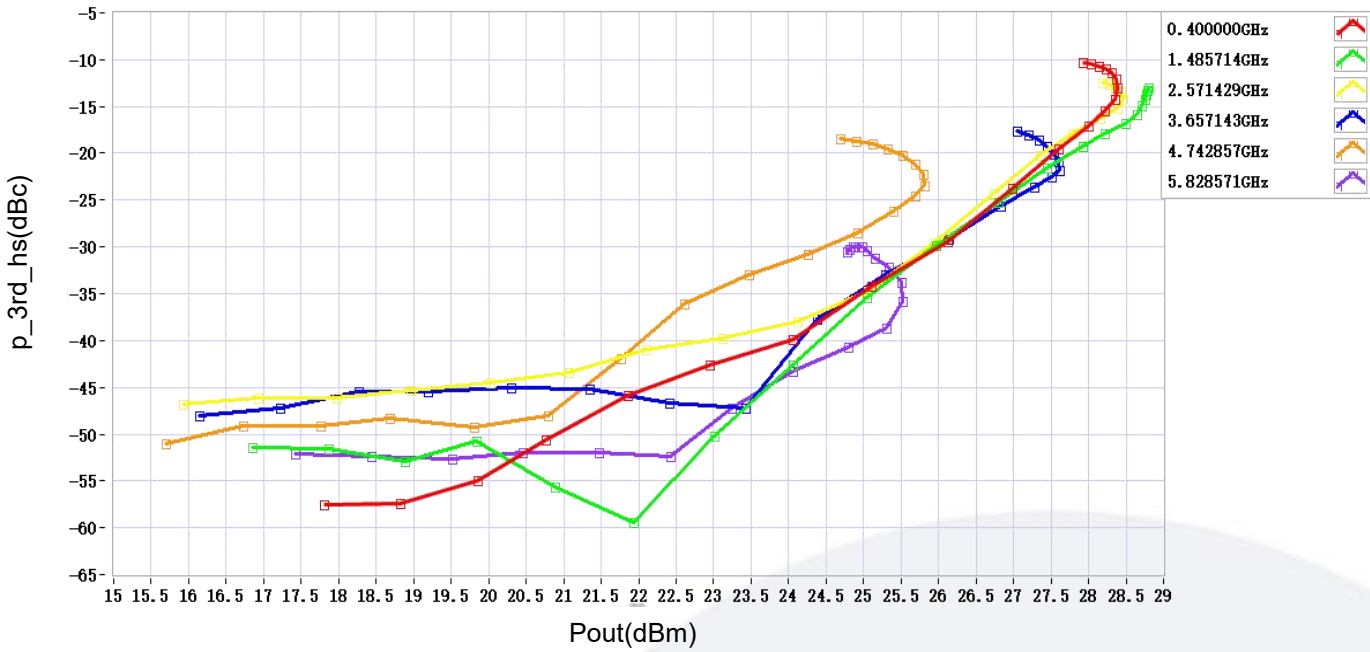


2nd Harmonic(dBc) vs Output Power



典型曲线 Typical Performance Data:

3rd Harmonic(dBc) vs Output Power



Current vs Output Power

