

**Model: TPA6G40G-28-20**
**Power Amplifier ,B-band  
 6-40GHz, Gain: 26dB Min, NF: 6dbm**
**Feature:**

- Ultra Wide Band: 6-40GHz
- Gain: 26dB Min
- Psat Output Power: 22 dBm Typ
- 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	6-40			GHz
增益 Gain	26	28		dB
增益平坦度 Gain Flatness		±2.0		dB
噪声系数 Noise Figure		6.0		
饱和输出功率 Psat		22		dBm
输入驻波 Input VSWR		1.7	2.3	:1
输出驻波 Output VSWR		1.7	2.3	:1
直流电压 DC Voltage		12		V DC
直流电流 DC Supply Current		255		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

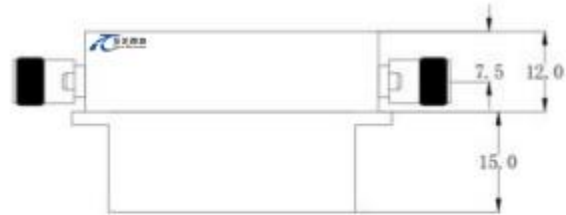
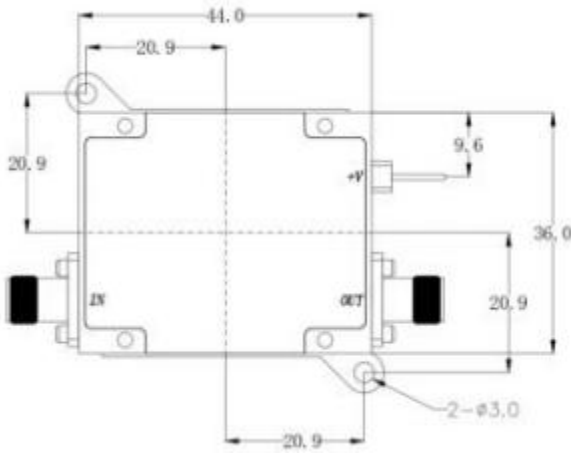
参数Parameter	指标 Value	单位Units
输入输出接Input /Output Connector	2.92mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	44*36*12	mm
重量 Weight	/	g


**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13V
输入功率 RF INPUT POWER	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: Inches



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**温度环境 Environmental Conditions:**

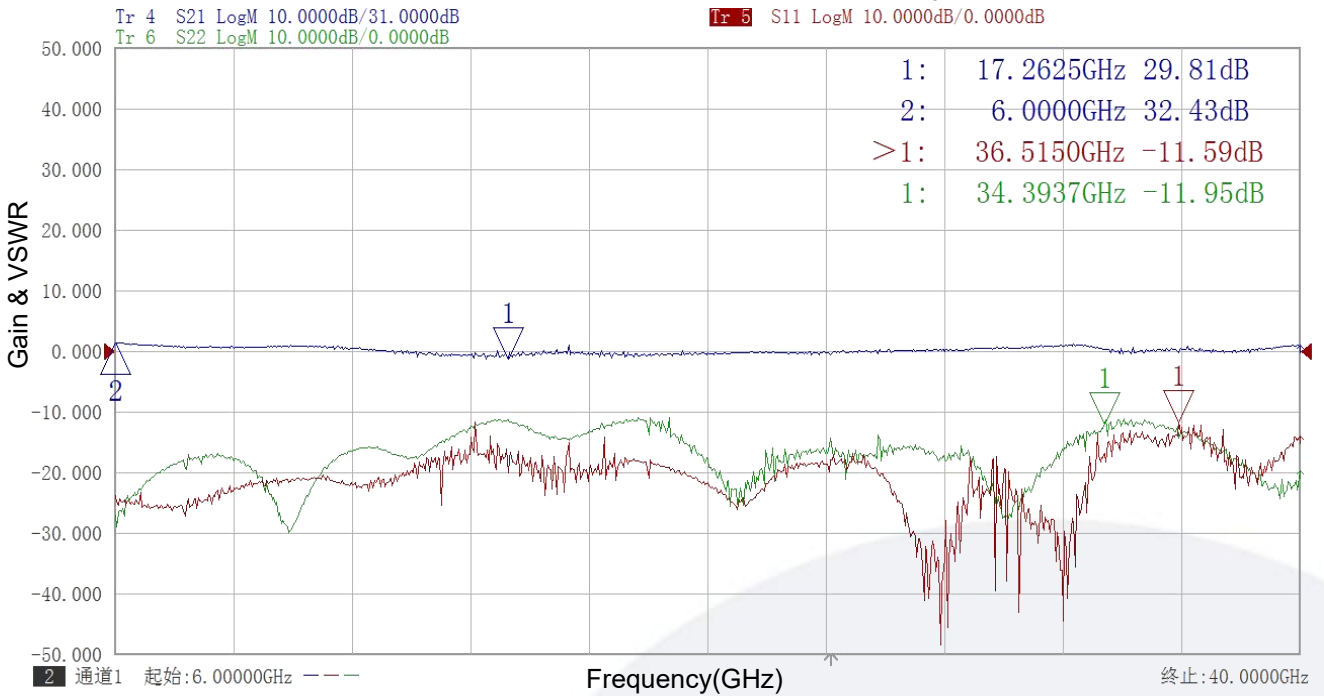
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**订货信息 Ordering Information:**

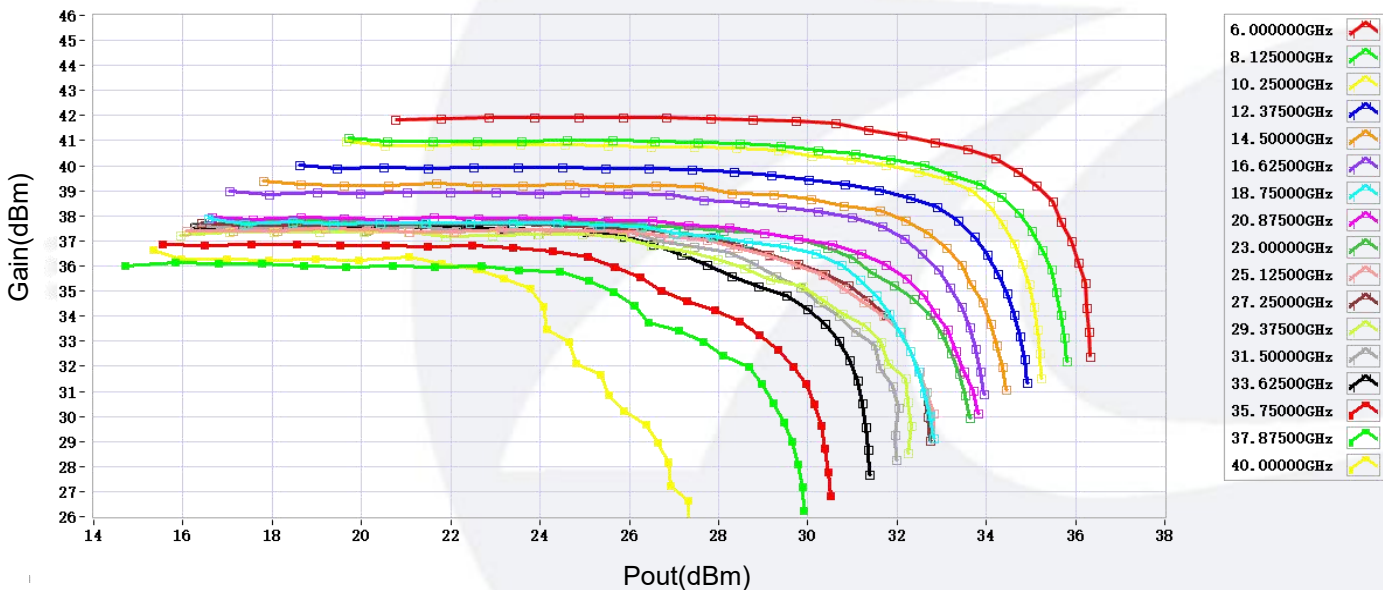
标准型号 Part Number	描述 Description	版本号Revision
TLPA6G40G-30-22	Power amplifier 6-40 GHz,Gain:30dB,P1dB:20dBm,12V DC, Without Heatsink	Rev.1.1
TLPA6G40G-30-22-HS	Power amplifier 6-40 GHz,Gain:30dB,P1dB:20dBm,12V DC With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

### Gain & VSWR vs Frequency

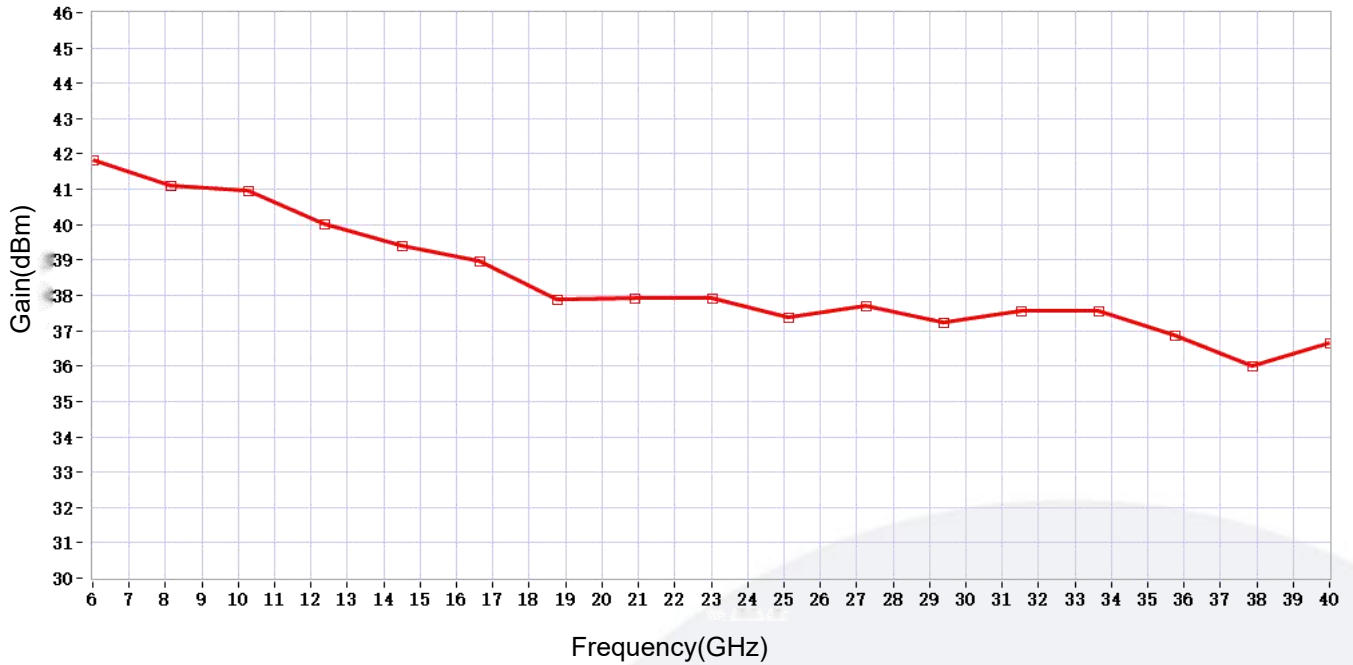


### Gain vs Output Power

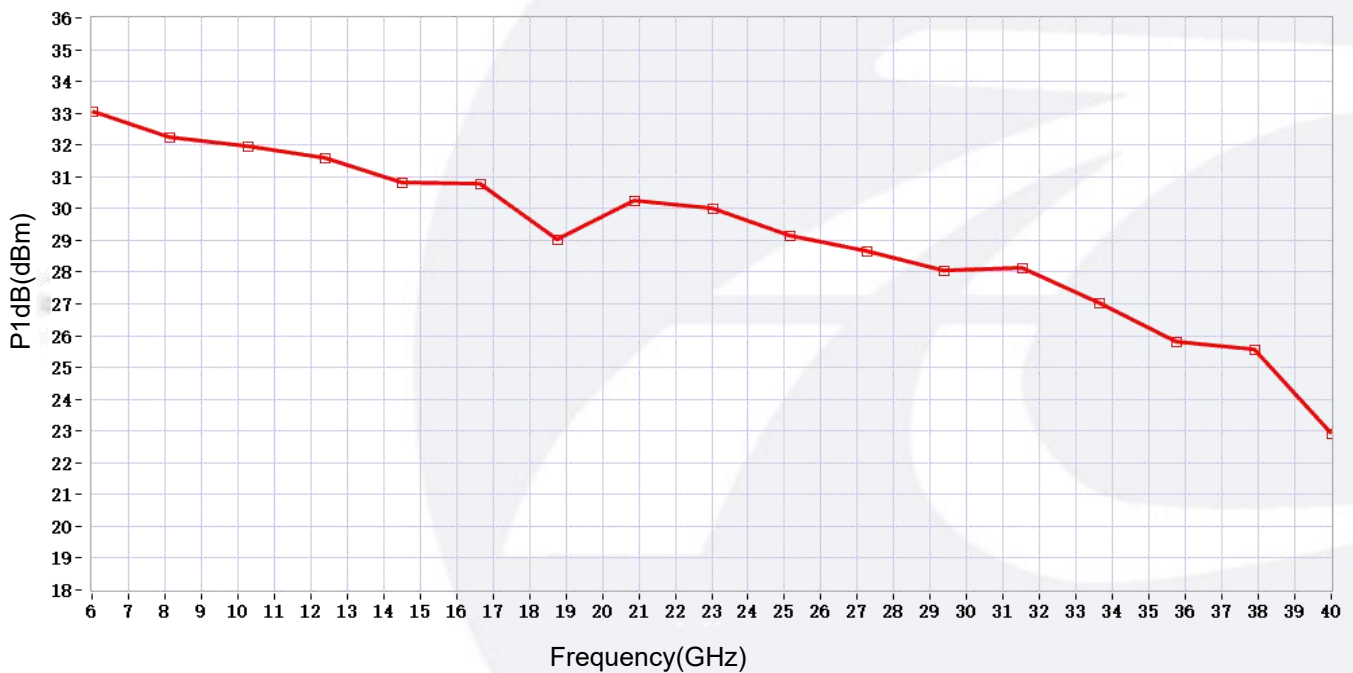


典型曲线 Typical Performance Data:

Gain vs Frequency

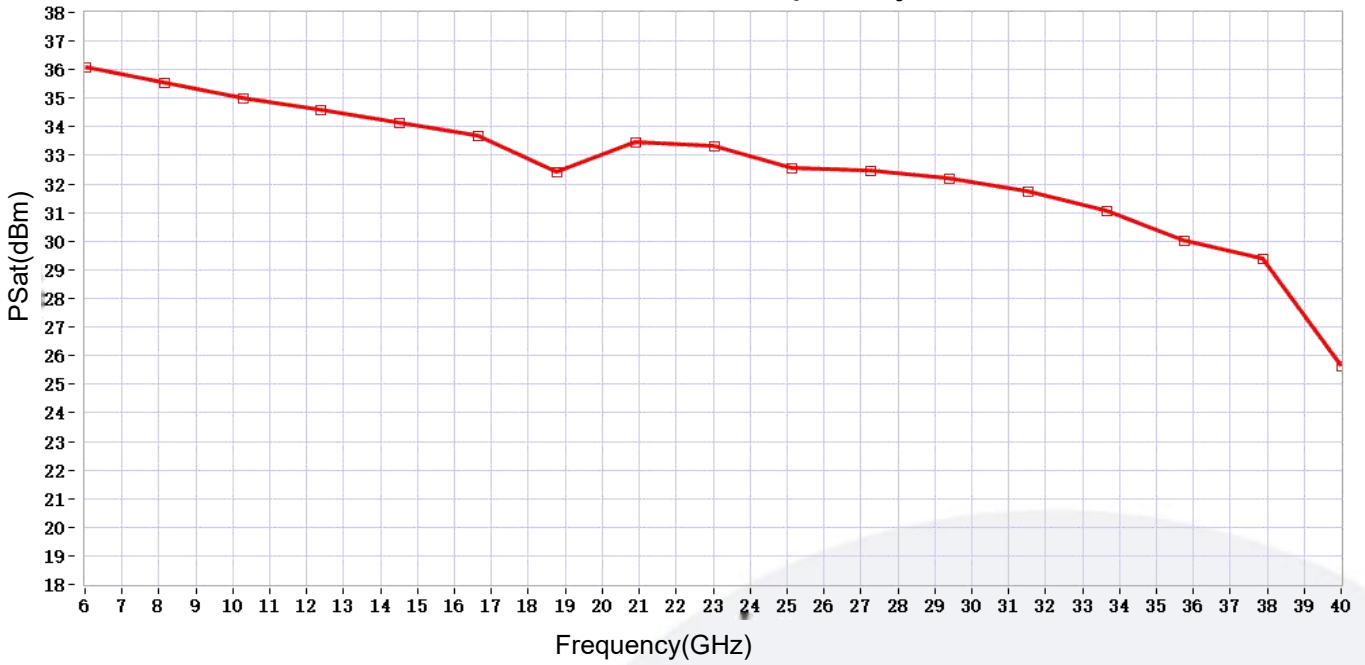


P1dB vs Frequency

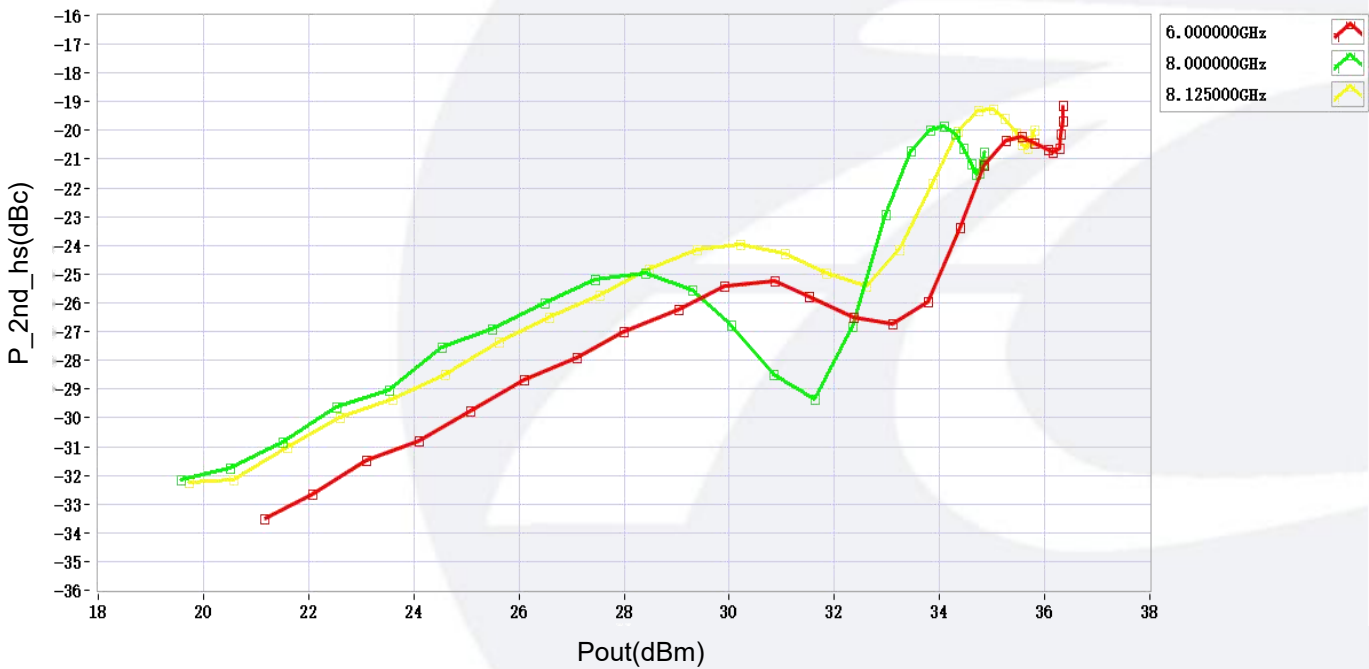


典型曲线 Typical Performance Data:

PSat vs Frequency



2nd Harmonic vs Output Power



典型曲线 Typical Performance Data:

Current vs Output Power

