

**Model:TLPA6G40G-32-22**

**Broadband Power Amplifier**  
**6-40GHz,Gain:32dB,P1dB:22dBm**

**Feature:**

- Ultra Wide Band: 6-40GHz
- Gain: 32dB Typ
- Output P1dB Power: 22dBm 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
功率增益 Power Gain		32		dB
增益平坦度 Gain Flatness		±2.0		dB
线性输出功率 Output P1dB	20	22		dB
饱和输出功率 Output Psat		23		dBm
杂散 Spurious@Pout=47dBm		-60		dBc
噪声系数 Noise Figure		6		dB
输入驻波 Input VSWR		1.7		:1
输出驻波 Output VSWR		1.7		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		0.255		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	2.92mm-Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	44*36*12	mm
/	25	Kg

**绝对最大值 Absolute Maximum Ratings:**

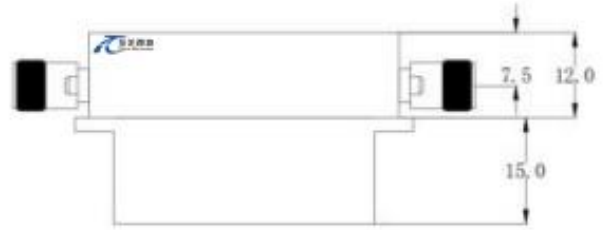
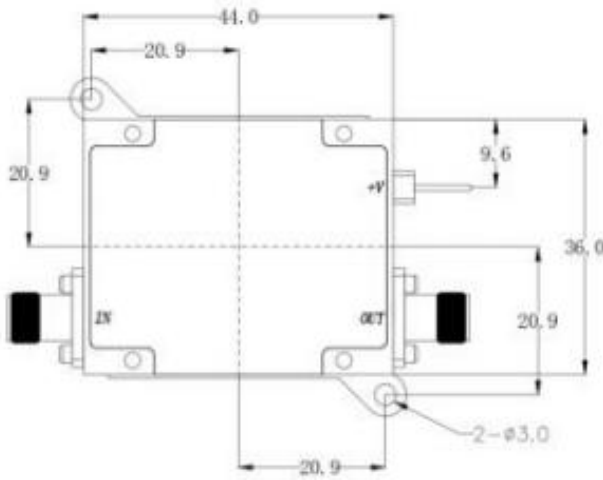
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13V
输入功率 RF INPUT POWER	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System  
Benchtop Amplifier

**外形尺寸 Outline Drawing:**

Unit: mm(Inches)



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



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**温度环境 Environmental Conditions:**

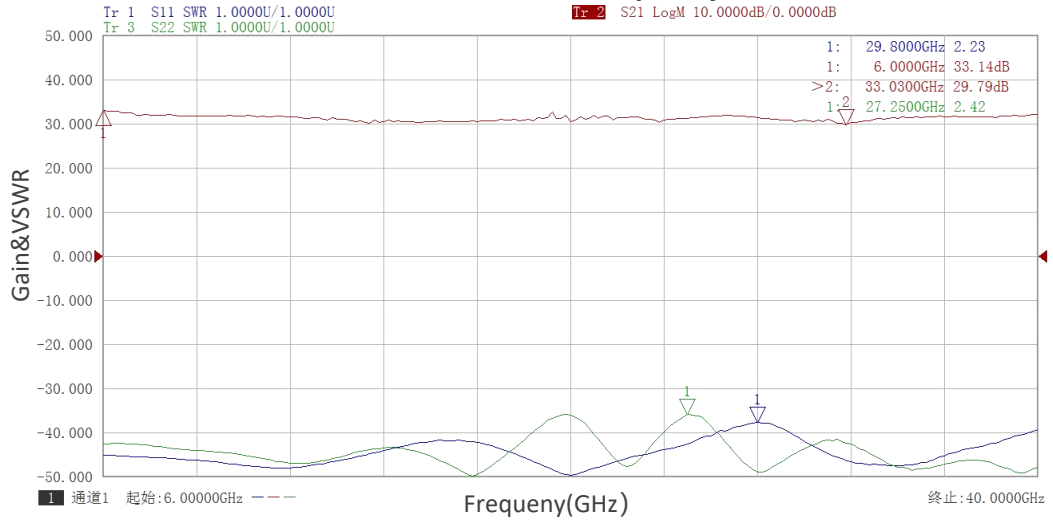
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc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

**订货信息 Ordering Information:**

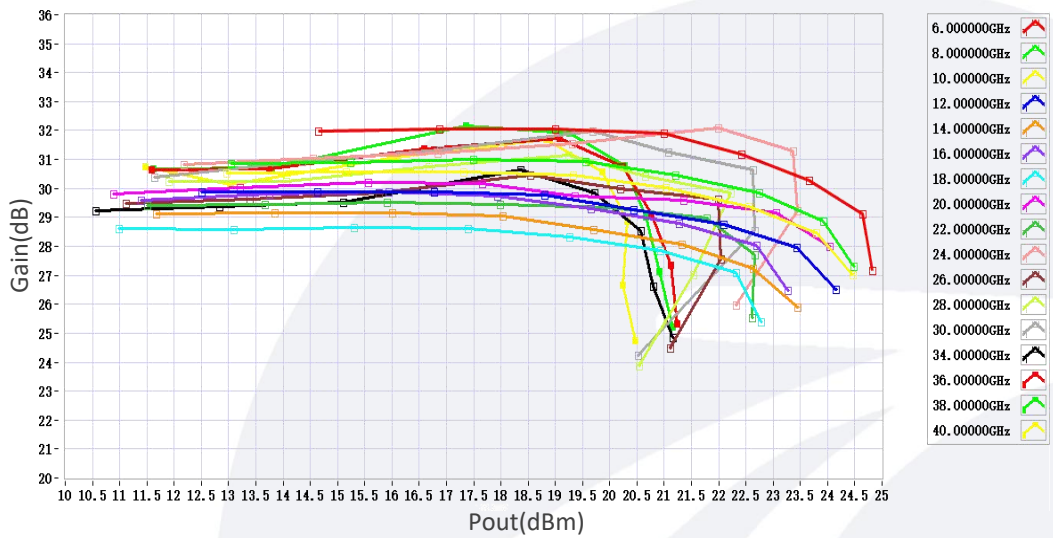
标准型号 Part Number	描述 Description	版本号Revision
TLPA6G40G-32-22	Power amplifier 6-40 GHz,Gain:32dB,P1dB:22dBm,12V DC, Without Heatsink	Rev.1.1
TLPA6G40G-32-22-HS	Power amplifier 6-40 GHz,Gain:32dB,P1dB:22dBm,12V DC With Heatsink	

典型曲线 Typical Performance Data:

Gain&VSWR vs Frequency



Gain vs Output Power



P1dB vs Frequency

