

**Model:TLPA50K20G-32-22**
**Power Amplifier**
**50K-20GHz, Gain:32dB,P1dB:22dBm**
**Feature :**

- Ultra Wide Band: 50KHz-20GHz
- Gain: 32 dB
- 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	50KHz-20GHz			
增益 Gain		32		dB
增益平坦度 Gain Flatness		±2.0		dB
噪声系数 Noise Figure		3.0		dB
输出功率P1dB	20	22		dBm
输入驻波 Input VSWR		2.2		:1
输出驻波 Output VSWR		2.2		:1
直流电压 DC Voltage	10	+12	13	V DC
直流电流 DC Supply Current		240		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

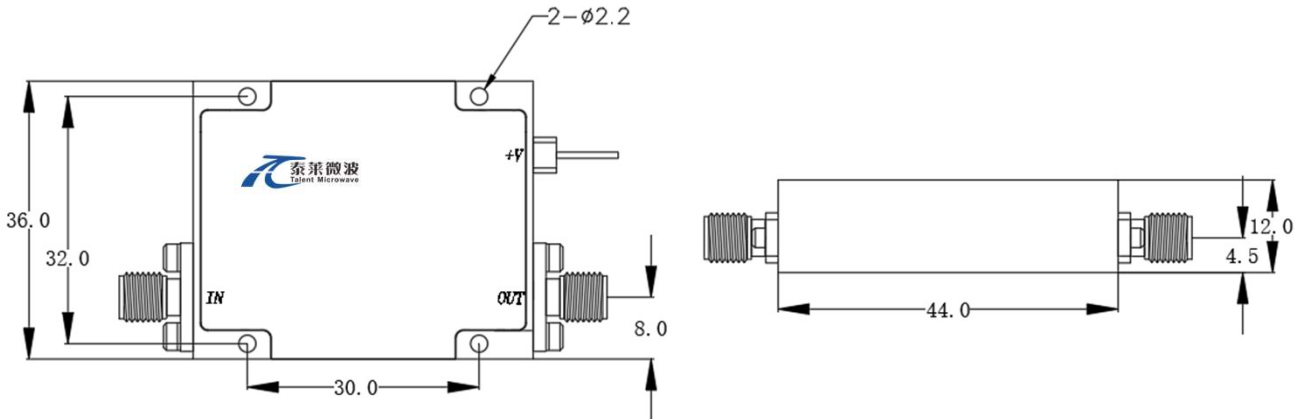
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
重量 Weight	/	g


**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13 V
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: mm



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



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**温度环境 Environmental Conditions:**

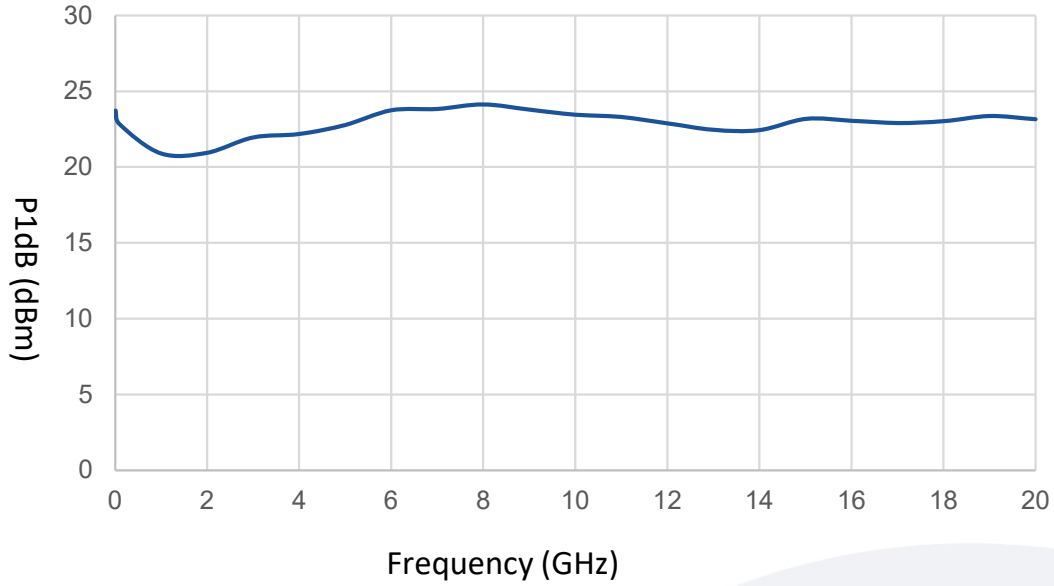
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc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

**订货信息 Ordering Information:**

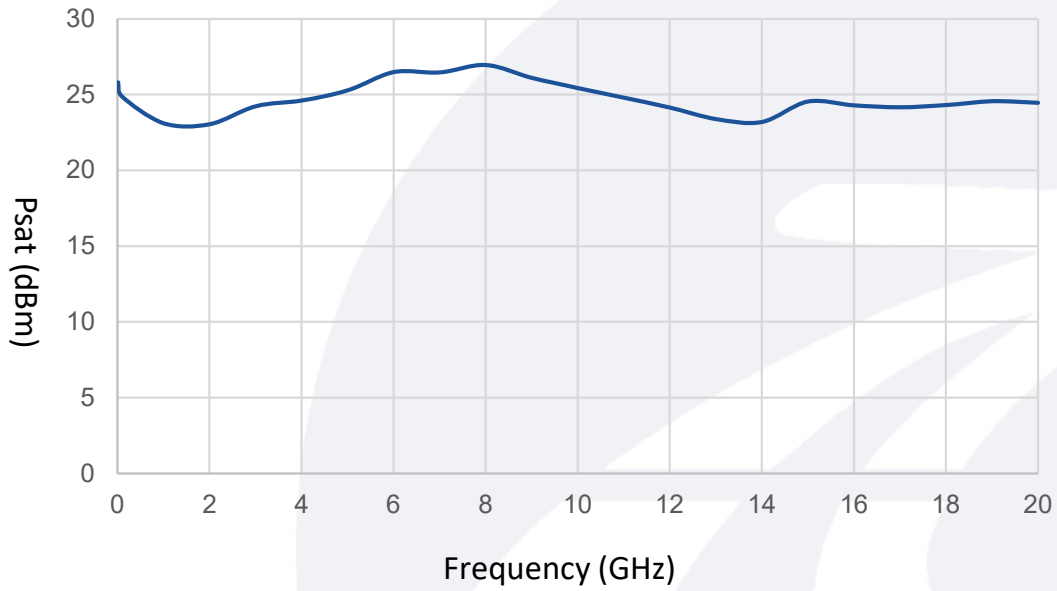
标准型号 Part Number	描述 Description	版本号Revision
TLPA50K20G-32-22	Power Amplifier 50K-20GHz, Gain:32dB,P1dB:22dBm,12V DC, Without Heatsink	Rev.1.0
TLPA50K20G-32-22-HS	Power Amplifier 50K-20GHz, Gain:32dB,P1dB:22dBm,12V DC, With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

P1dB



Psat



典型曲线 Typical Performance Data:

Noise Figure

