

**Model:TLPA20G50G-23-23**
**Power Amplifier**  
**20GHz-50GHz, Gain:23dB,Psat:23dBm**
**Feature:**

- Ultra Wide Band: 20GHz-50GHz
- Gain: 23 dB
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**电气特性 Electrical Specifications:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	20-50			GHz
增益 Gain	20	23		dB
增益平坦度 Gain Flatness		±3		dB
输出 P1dB	20.5	21		dBm
输出功率 Psat	21	23		dBm
输入驻波 Input VSWR		2.3		:1
输出驻波 Output VSWR		2.3		:1
直流电压 DC Voltage	+5	+6	+8	V DC
直流电流 DC Supply Current		420		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical Specifications:**

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.4mm Female	
直流偏置 Bias	Solder Pin	
重量 Weight	/	g

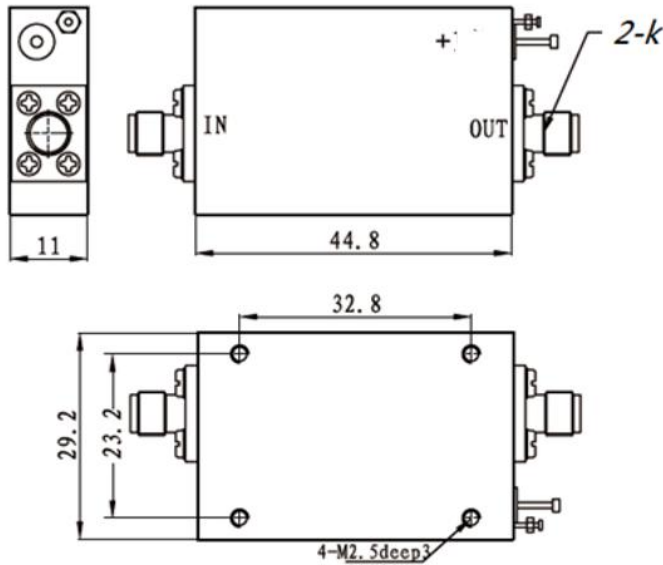
**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+8
输入功率 RF INPUT POWER	+13 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



**\*\*\*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
TLPA20G50G-23-23	Power amplifier 20-50GHz,Gain:23dB,P1dB:21dBm,+8V DC,Without Heatsink.	Rev.1.1
TLPA20G50G-23-23-HS	Power amplifier 20-50GHz,Gain:23dB,P1dB:21dBm,+8V DC,With Heatsink.	Rev.1.1