

**Model:TLPA50G65G-33-25**
**Power Amplifier**  
**50-65GHz,Gain:33dB,Psat:25dBm**
**Feature:**

- Ultra Wide Band: 50-65 GHz
- Gain: 33 dB Min
- Psat Output Power: 25 dBm Typ
- 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	50-65			GHz
小信号增益 Small Signal Gain	33	36		dB
增益平坦度 Gain Flatness		±3		dB
线性输出功率 Output P1dB	22	23		dBm
饱和输出功率 Output Psat		25		dBm
输入驻波 Input VSWR			2.0	:1
输出驻波 Output VSWR			2.0	:1
直流电压 DC Voltage		4	5	V DC
直流电流 DC Supply Current		1.7		A
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	1.85mm Female/1.85mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	80*80*15	mm
重量 Weight	/	g

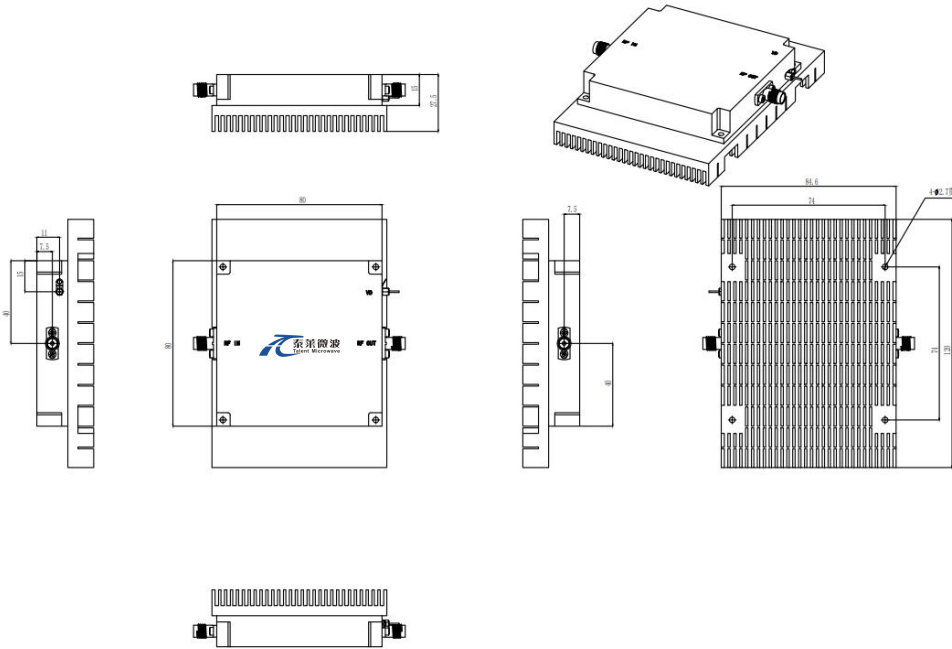
**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+5 V
输入功率 RF Input Power	+5 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	-40		+75	°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)	20g,11ms,saw-tooth			
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
TLPA50G65G-33-25	Power amplifier 50-65GHz,Gain:33dB,Psat:25dBm,+4V DC,Without Heatsink	Rev.1.1
TLPA50G65G-33-25-HS	Power amplifier 50-65GHz,Gain:33dB,Psat:25dBm,+4V DC,With Heatsink	Rev.1.1