

**Model:TLPA30.9G31.4G-43-43**
**Power Amplifier**  
**30.9-31.4GHz,Gain:43dB,Psat:43dBm**
**Feature:**

- Ultra Wide Band: 30.9-31.4GHz
- Gain: 43 dB Min
- Psat Output Power: 43 dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 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	30.9-31.4			GHz
增益 Gain	43			dB
增益平坦度 Gain Flatness			±2	dB
饱和输出功率 Output Psat	43			dBm
杂散 Supurious@Pout=43dBm			-50	dBc
输入驻波 Input VSWR			2.0	:1
直流电压 DC Voltage	+22			V DC
直流电流 DC Supply Current		7	8.5	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	2.92 Female/2.92 Female	
直流偏置 DC Bias	J30J-9ZKP	
尺寸 Size	150*90*20	mm
重量 Weight	400	g

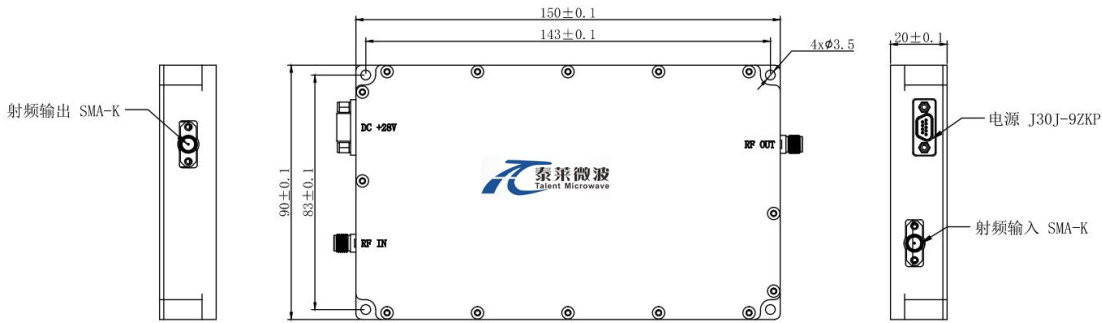
**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
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



J30J-9ZKP引脚定义

引脚 Pin	功能 Function
Pin1-3	+22V
Pin4	过温指示 (高电平表示异常, 低电平表示正常)
Pin5	过驻波指示 (高电平表示异常, 低电平表示正常)
Pin6-8	GND
Pin9	TTL (电源通断控制, 高电平有效, 低电平及悬空无效)

\*\*\*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		+60	°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
TLPA30.9G31.4G-43-43	Power amplifier 30.9-31.4GHz,Gain:43dB,Psat:43dBm, +22V DC,Without Heatsink	Rev.1.1
TLPA30.9G31.4G-43-43- HS	Power amplifier 30.9-31.4GHz,Gain:43dB,Psat:43dBm, +22V DC,With Heatsink	Rev.1.1