

**Model:TLPA2G20G-35-35**
**Power Amplifier**
**2-20GHz, Gain:35dB, Psat:35dBm**
**Feature:**

- Ultra Wide Band: 2-20GHz
- Gain: 35dB
- Psat Output Power: 35dBm
- 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	2-20			GHz
功率增益 Power Gain	35			dB
小信号增益@2-8GHz		44		dB
小信号增益平坦度 Gain Flatness		±2		dB
饱和输出功率 Psat	35			dBm
P-1输出功率		30		dBm
P-3输出功率		33		dBm
输入功率 Input Power		0	5	dBm
噪声系数 Noise Figure		2.5		dB
杂散 Supurious@Pout=35dBm	60			dBc
谐波抑制 Harmonic@Pout=35dBm	10			dBc
输入驻波 Input VSWR			2.0	:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		+18		V DC
直流电流 DC Supply Current			1.5	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	SMA-Female/SMA-Female	
直流偏置 Bias	TBD	
重量 Weight	≤500	g

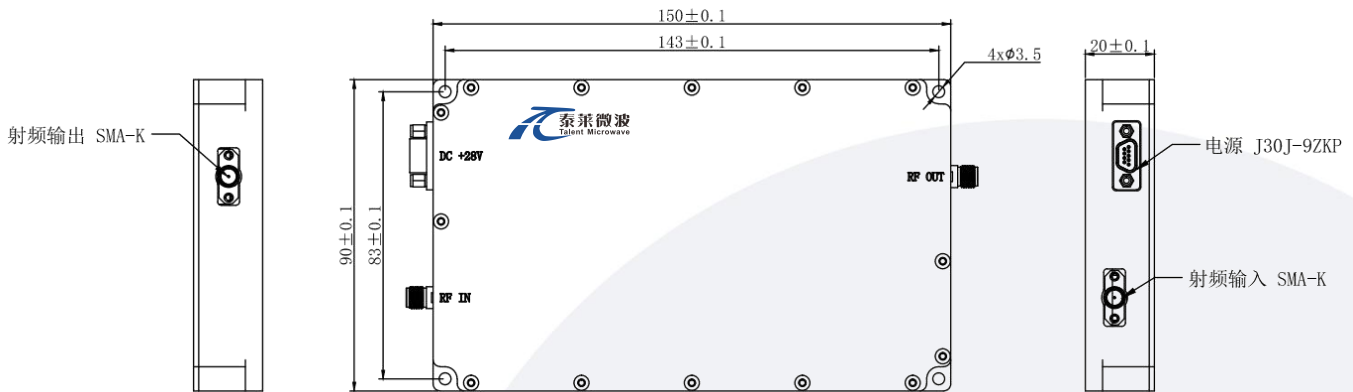

**Available 220V System  
Benchtop Amplifier**

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	1-5: +18V 6-9: GND
输入功率 RF INPUT POWER	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**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	-40		+60	°C
存储温度 Non-operating Temperature	-20		+75	°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
TLPA2G20G-35-35	Power amplifier 2-20GHz, Gain:35dB, Psat:35dBm, NF:2.5dB, +18V DC, Without Heatsink	Rev.1.1
TLPA2G20G-35-35-HS	Power amplifier 2-20GHz, Gain:35dB, Psat:35dBm, NF:2.5dB, +18V DC, With Heatsink	Rev.1.1