

Model: TLPA0.5G3G-47-47
Power Amplifier
0.5-3GHz, Gain: 47dB, Psat: 47dBm
Feature:

- Ultra Wide Band: 2.5-3GHz
- Gain: 47dB Min
- Psat Output Power: 47dBm Min
- TEM Protection: 80°C protection.
- 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	0.5-3			GHz
功率增益 Power Gain	47			dB
增益平坦度 Gain Flatness			±2	dB
饱和输出功率 Psat	47			dBm
输入功率 Input Power			6	dBm
杂散 Supurious	65			dBc
谐波 Harmonics	-10			dBc
输入驻波 Input VSWR			1.8	:1
直流电压 DC Voltage		+32	+33	V DC
直流电流 DC Supply Current		10		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	
DC加电接口 DC Power Interface	穿心电容	
功放PTT开关端口	功放默认关闭, 3.3~5V开启	
尺寸 Size	210*101*28.5	mm
重量 Weight	0.86	Kg

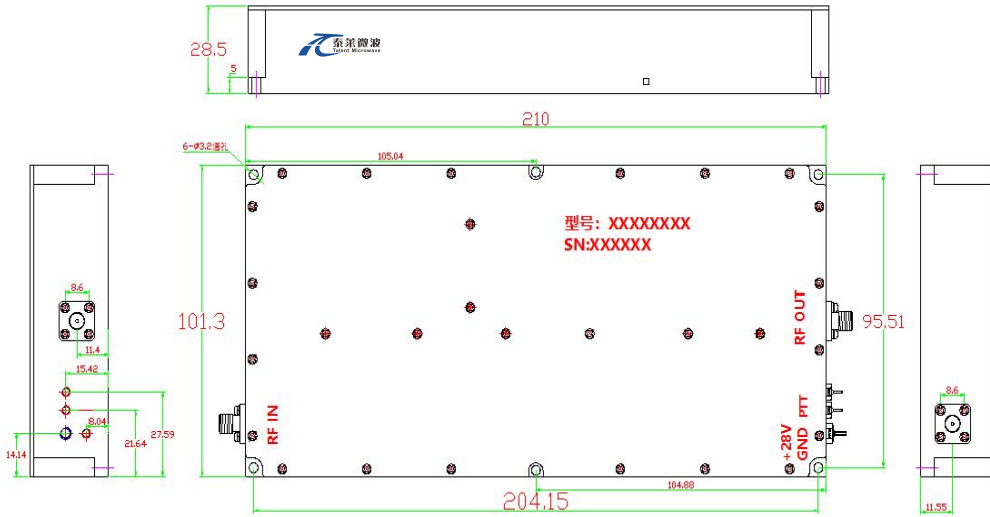
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	32V/10A
输入功率 RF INPUT POWER	6 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(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	-25		+55	°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
TLPA0.5G3G-47-47	Power amplifier 0.5-3GHz,Gain:47dB,Psat:47dBm, +33V DC,Without Heatsink	Rev.1.1
TLPA0.5G3G-47-47-HS	Power amplifier 0.5-3GHz,Gain:47dB,Psat:47dBm, +33V DC,With Heatsink	Rev.1.1