

Model:TLLA0.9G2.5G-15-15
Low Noise Amplifier
0.9-2.5GHz, NF:1.5dB, Gain:15dB,P1dB:15dBm
Feature:

- Ultra Wide Band: 0.9-2.5GHz
- Gain: 15dB Typ
- Noise Figure: 1.5dB 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	0.9-2.5			GHz
增益 Gain		15		dB
增益平坦度 Gain Flatness		±0.75		dB
噪声系数 Noise Figure		1.3	1.5	dB
线性输出功率P1dB	15	17		dBm
输入驻波 Input VSWR		1.4	1.6	:1
输出驻波 Output VSWR		1.4	1.6	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		40		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	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	44.8*29.2*11	mm
重量 Weight	55	g

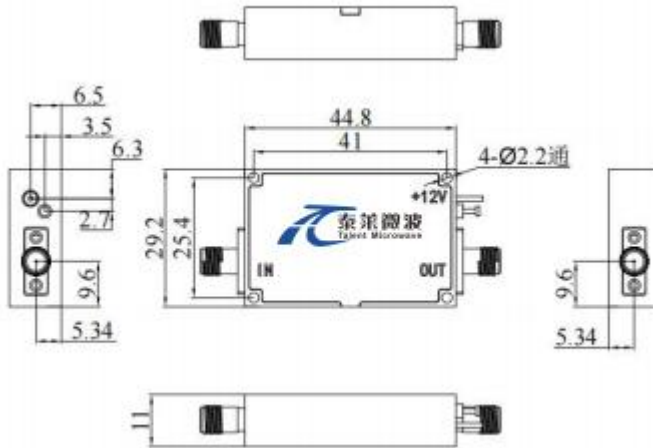
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13V max
输入功率 RF INPUT POWER	15 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	-40		+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
TLLA0.9G2.5G-15-15	Low Noise Amplifier, 0.9-2.5GHz, Noise Figure:1.5dB, Gain:15 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.9G2.5G-15-15-HS	Low Noise Amplifier, 0.9-2.5GHz, Noise Figure:1.5dB, Gain:15 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1