

Model: TLLA10M50G-50-65
**Low Noise Amplifier 10MHz-50GHz
 NF:6.5 dB, Gain:50 dB,P1dB:13dBm**
Feature:

- Ultra Wide Band: 10MHz-50GHz
- Noise Figure: 5.0dB Typ
- 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	10MHz-50			GHz
增益 Gain	46	50		dB
增益平坦度 Gain Flatness		±3.0		dB
噪声系数 Noise Figure (100MHz-40GHz)		5.0	6.5	dB
线性输出功率P1dB (100MHz-40GHz)	13			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	8	12		V DC
直流电流 DC Supply Current		500		mA
阻抗 Impedance	50			Ohms

Parameters degrade below 100MHz and above 40GHz.

机械特性 Mechanical :

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.4mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	40*35*12	mm
重量 Weight	30	g



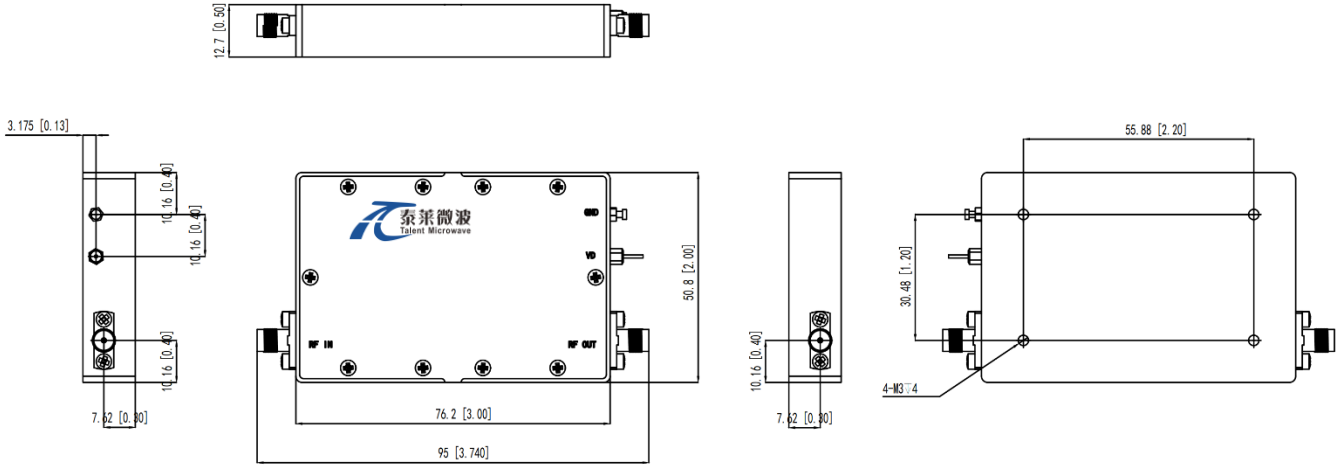
Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13V
输入功率 RF INPUT POWER	0 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	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100% RH at 35c, 95%RH at 40°C			%
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
TLLA010M50G-50-65	Low Noise Amplifier 10MHz-50GHz, NF:6.5 dB, Gain:50 dB,P1dB:13dBm8-12V,Without Heatsink	Rev.1.1
TLLA010M50G-50-65-HS	Low Noise Amplifier 10MHz-50GHz , NF:6.5 dB, Gain:50 dB,P1dB:13dBm,8~12V DC,With Heatsink	Rev.1.1