

**Model:TLPA800M1300M-50-50**

**Power Amplifier**  
**0.8-1.3GHz,Gain:50dB,Psat:50dBm**

**Feature:**

- Ultra Wide Band: 0.8-1.3GHz
- Gain:50dB Min
- Psat Output Power:50dBm Min
- 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	0.8-1.3			GHz
增益 Gain	50	52		dB
增益平坦度 Gain Flatness		±1	±2	dB
饱和输出功率 Output Psat	50	51		dBm
输入驻波 Input VSWR		1.5	2	:1
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current		2	15	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	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	180*100*20	mm
重量 Weight	250	g

**绝对最大值 Absolute Maximum Ratings:**

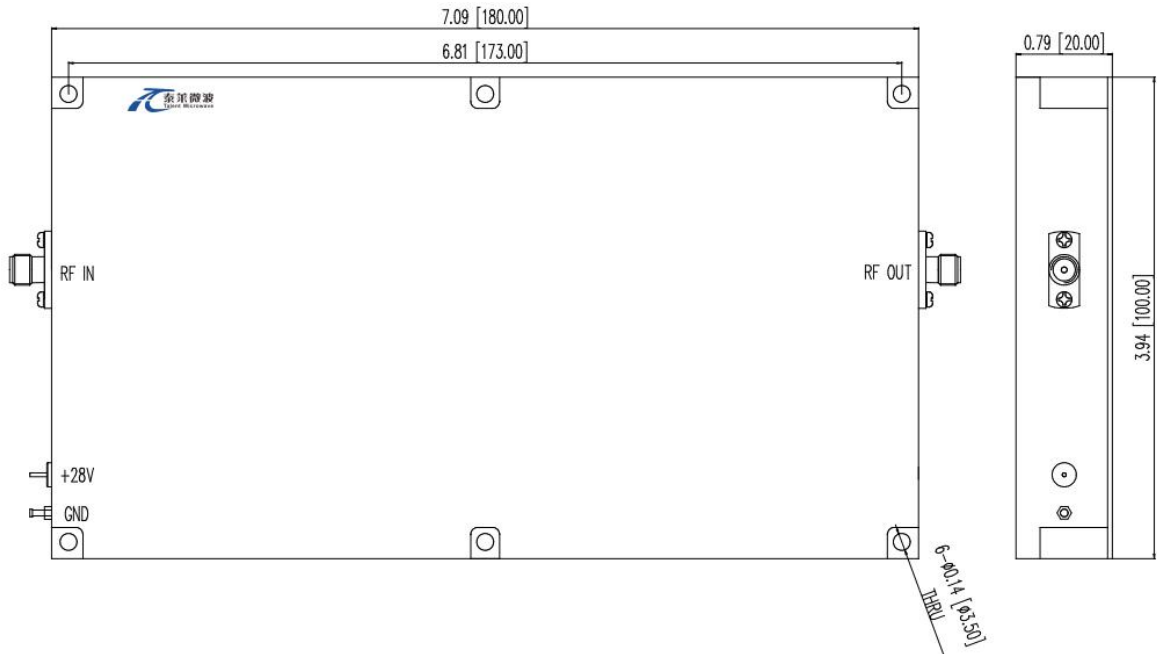
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30V
输入功率 RF Input Power	5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



**Available 220V System  
Benchtop Amplifier**

外形尺寸 Outline Drawing:

Unit: mm



\*\*\*Heat Sink Required During Operation



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		95		%
海拔 Altitude	30,000			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
TLPA800M1300M-50-50	Power amplifier 0.8-1.3GHz, Gain:50dB, Psat:50dBm, +28V DC, Without Heatsink.	Rev.1.1
TLPA800M1300M-50-50-HS	Power amplifier 0.8-1.3GHz, Gain:50dB, Psat:50dBm, +28V DC, With Heatsink.	Rev.1.1