

**Model:TLPA10M300M-33-33**
**Power Amplifier**
**10MHz-300MHz,Gain:33dB,Psat:33dBm**
**Feature:**

- Wide Band: 10MHz-300MHz
- Gain: 33dB Min
- Psat Output Power: 33 dBm 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	10-300			MHz
增益 Gain	33	35		dB
增益平坦度 Gain Flatness		±1	±2	dB
饱和输出功率 Output Psat	33	34		dBm
谐波抑制 Harmonics @Pout=33dBm		-15		dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		15	16	V DC
直流电流 DC Supply Current		0.2	1.0	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	
直流偏置 Bias	Solder Pin	
尺寸 Size	76*48*15	mm
重量 Weight	150	g

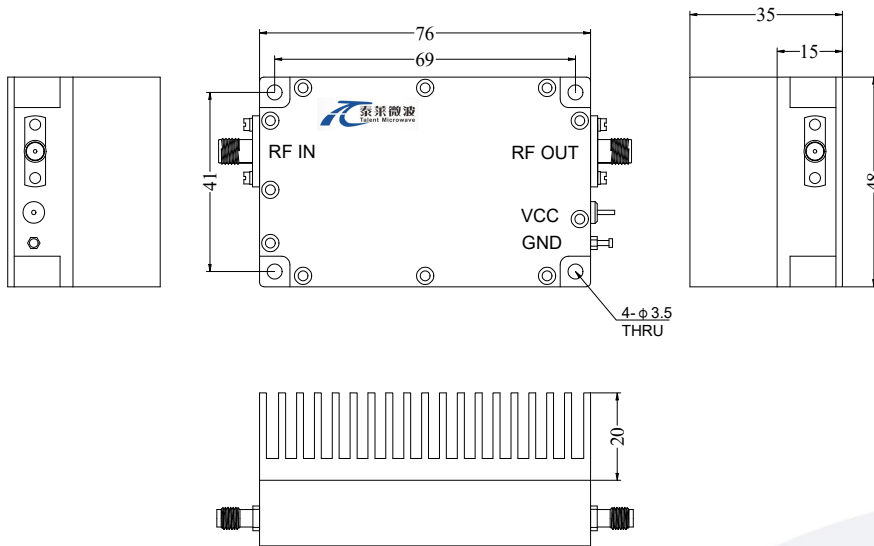
**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	16V
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



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		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
TLPA10M300M-33-33	Power amplifier 10MHz-300MHz, Gain:33dB, Psat:33dBm, 15V DC, Without Heatsink	Rev.1.0
TLPA10M300M-33-33 -HS	Power amplifier 10MHz-300MHz, Gain:33dB, Psat:33dBm, 15V DC, With Heatsink	Rev.1.0