

**Model:TLPA5M500M-30-33-HS**
**Power Amplifier**  
**5-500MHz,Gain:33dB,P1dB:33dBm**
**Feature:**

- Ultra Wide Band: 5-500MHz
- Gain: 33 dB Typ
- P1dB 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	5-500			MHz
增益 Gain	30	33		dB
增益平坦度 Gain Flatness		±0.5	±1	dB
线性输出功率 Output P1dB	33	34		dBm
三阶互调 Output IP3		38		dBm
噪声系数 Noise Figure		7		dB
输入驻波 Input VSWR		1.5	2	:1
输出驻波 Output VSWR		1.5	2	:1
直流电压 DC Voltage		24	28	V DC
直流电流 DC Supply Current		0.9	1.5	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	120*144*45	mm
重量 Weight	400	g

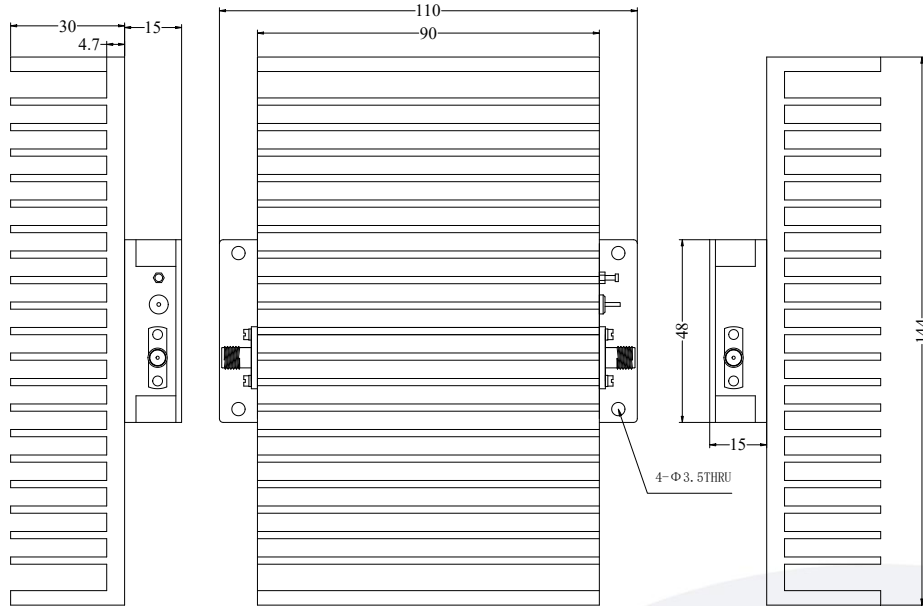
**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28 V
输入功率 RF Input Power	+10 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



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		+60	°C
存储温度 Non-operating Temperature*	-50		+70	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		10,000		feet
震动 Shock / Vibration(MIL-STD-810F)		20g,11ms,saw-tooth		
冲击 Shock(non operating)		20G for 11msc half sin wave,3 axis both directions		

\*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLPA5M500M-30-33	Power amplifier 5-500MHz,Gain:30dB,Psat:33dBm, +24V DC,Without Heatsink	
TLPA5M500M-30-33-HS	Power amplifier 5-500MHz,Gain:30dB,Psat:33dBm, +24V DC,With Heatsink	Rev.1.1