

**Model:TLPA2.39G2.41G-43-43-HS**
**Power Amplifier**  
**2.39-2.41GHz,Gain:43dB,Psat:43dBm**
**Feature:**

- Frequency range: 2.39-2.41 GHz
- Gain: 43 dB Min
- Psat Output Power: 43 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	2.39-2.41			GHz
小信号增益 Small Signal Gain	43	45		dB
增益平坦度 Gain Flatness		±0.5		dB
饱和输出功率 Output Psat	43	43.5		dBm
杂散 Supurious	50			dBc
谐波抑制 Harmonic	10	15		dBc
输入驻波 Input VSWR			2.0	:1
直流电压 DC Voltage	+28			V DC
直流电流 DC Supply Current	4			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	140*80*20	mm
重量 Weight	/	g

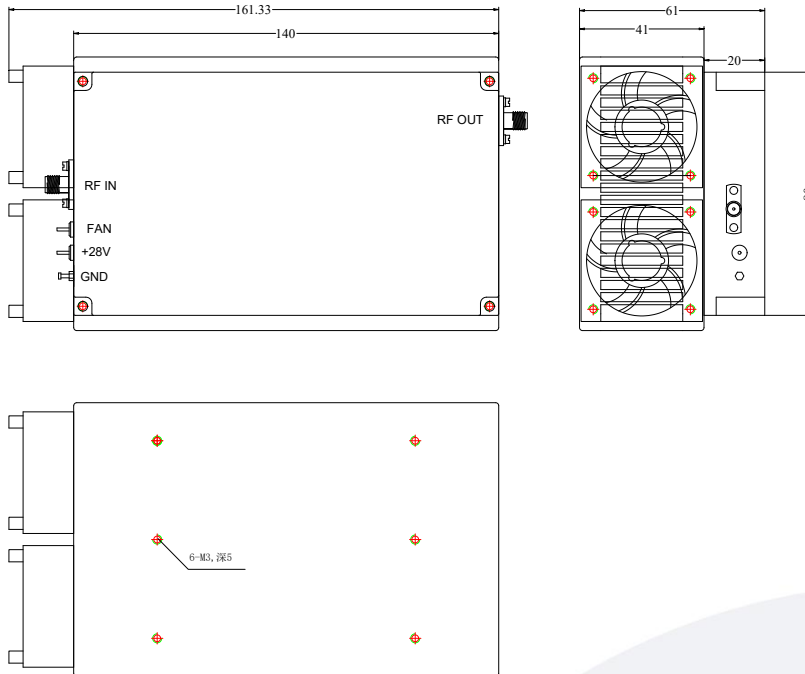
**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28 V
输入功率 RF Input Power	+5 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



**\*\*\*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		+75	°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)	20g,11ms,saw-tooth			
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
TLPA2.39G2.41G-43-43	Power amplifier,2.39-2.41GHz,Gain:43dB,Psat:43dBm,+28V DC,Without Heatsink	Rev.1.0
TLPA2.39G2.41G-43-43-HS	Power amplifier,2.39-2.41GHz,Gain:43dB,Psat:43dBm,+28V DC,With Heatsink	Rev.1.0