

**Model:TLPA2G18G-40-40**
**Power Amplifier**  
**2-18GHz, Gain:40dB, Psat:40dBm**
**Feature:**

- Ultra Wide Band: 2-18GHz
- Gain: 40 dB Typ
- Psat Output Power: 40 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	2-18			GHz
增益 Gain		40		dB
增益平坦度 Gain Flatness		±4		dB
饱和输出功率 Output Psat	40			dBm
杂散 Supurious			-50	dBc
谐波抑制 Harmonic		-10		dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage	28			V DC
直流电流 DC Supply Current	3.5			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	A1:+28V A2:GND	
尺寸 Size	130.4*74.5*16	mm
重量 Weight	500	g

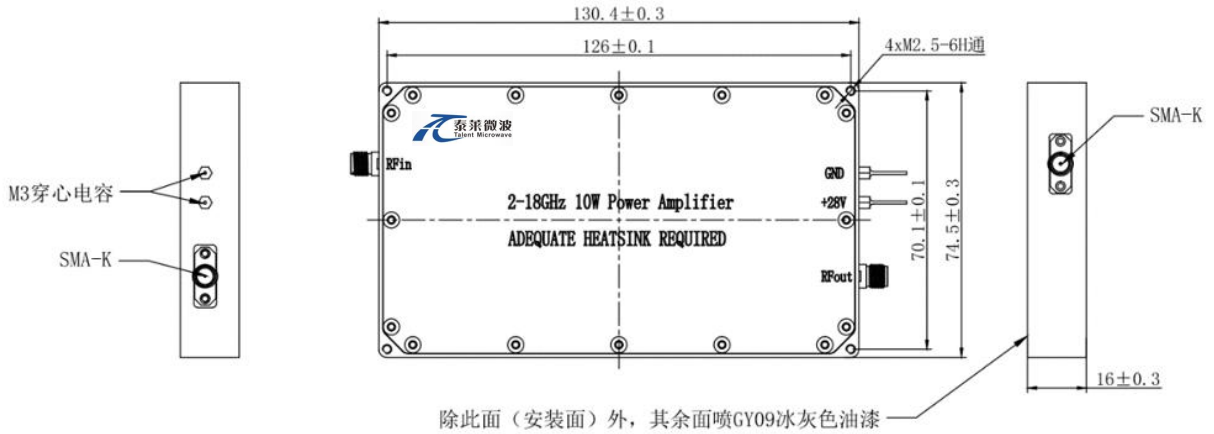
**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30 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



**\*\*\*Heat Sink Required During Operation**



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

温度环境 Environmental Conditions:

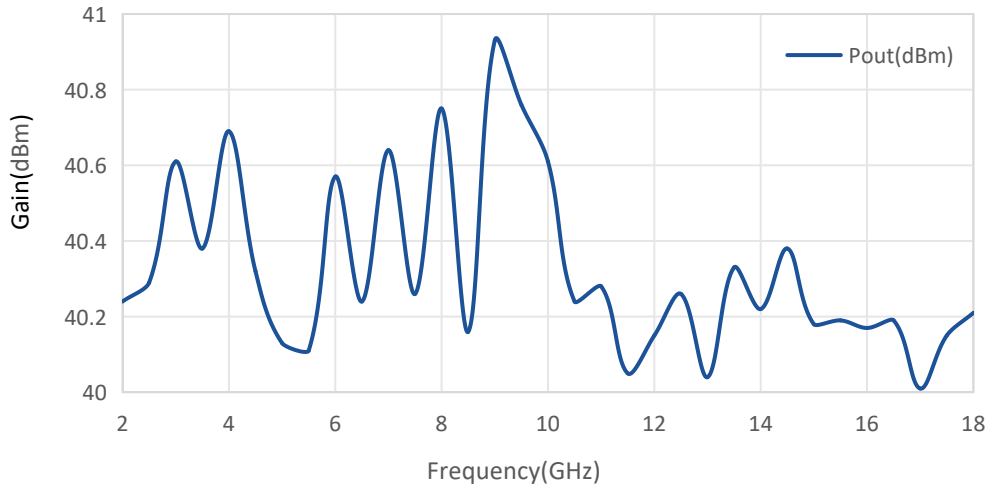
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	0		+50	°C
存储温度 Non-operating Temperature	-20		+75	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

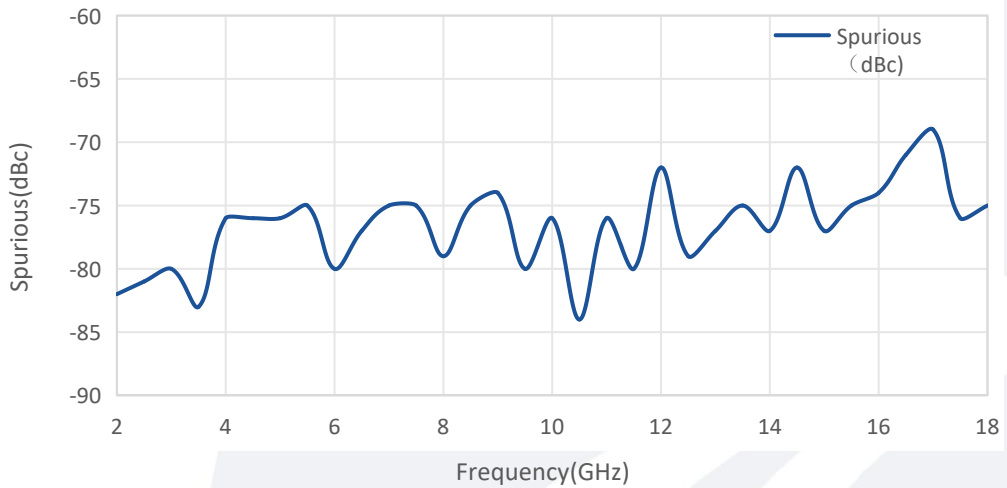
标准型号 Part Number	描述 Description	版本号Revision
TLPA2G18G-40-40	Power amplifier 2-18GHz,Gain:40dB,Psat:40dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA2G18G-40-40-HS	Power amplifier 2-18GHz,Gain:40dB,Psat:40dBm, +28V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Gain vs Frequency



Spurious vs Frequency



Harmonic vs Frequency

