

**Model:TLPA2G18G-43-43**
**Solid State High Power Amplifier  
 2-18GHz,Gain:43dB,Psat:43dBm**
**Feature:**

- Ultra Wide Band: 2-18GHz
- Gain: 43dB
- Psat Output Power: 43dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	2-18			GHz
功率增益 Power Gain	43			dB
饱和输出功率Output Psat	42.5	43		dBm
增益平坦度 Gain Flatness		±3		dB
输入功率Input Power		0	10	dBm
杂散 Spurious@Psat	50			dBc
谐波 Harmonics@Psat	10			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			4.5	A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	SMA Female/SMA Female	
DC加电接口 DC Power Interface	Solder Pin	
尺寸 Size	130.4*74.5*16	mm
重量 Weight	0.8	Kg

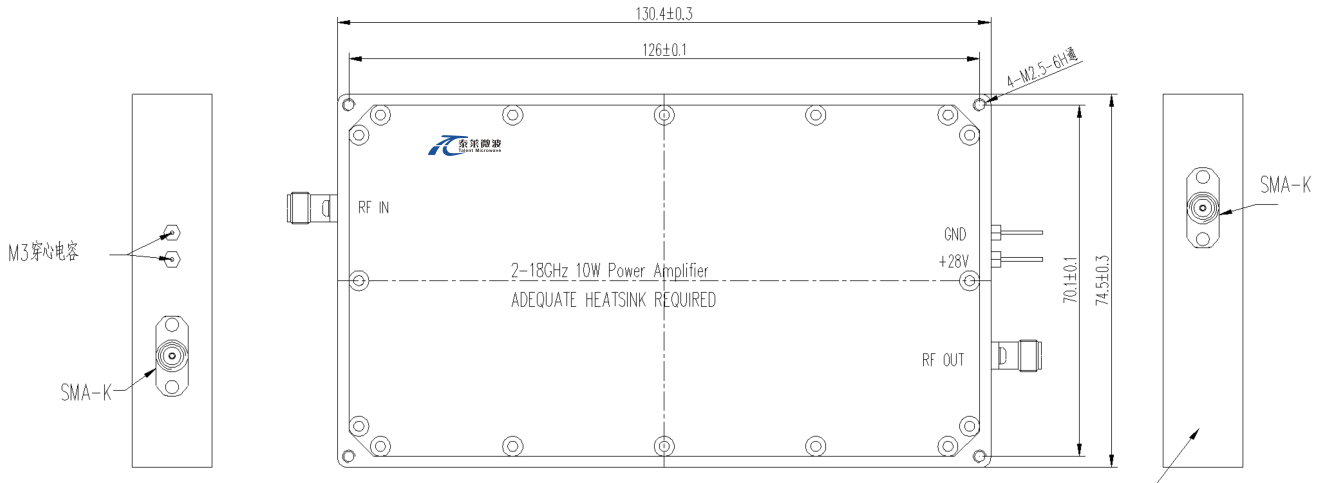
**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
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:

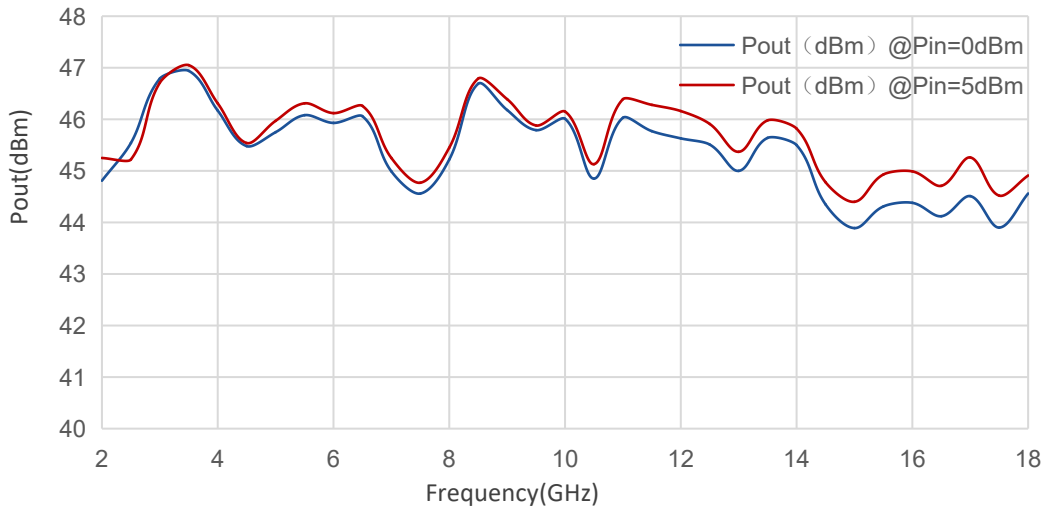
参数 Parameter	Min.	Typ.	Max.	单位 Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

订货信息 Ordering Information:

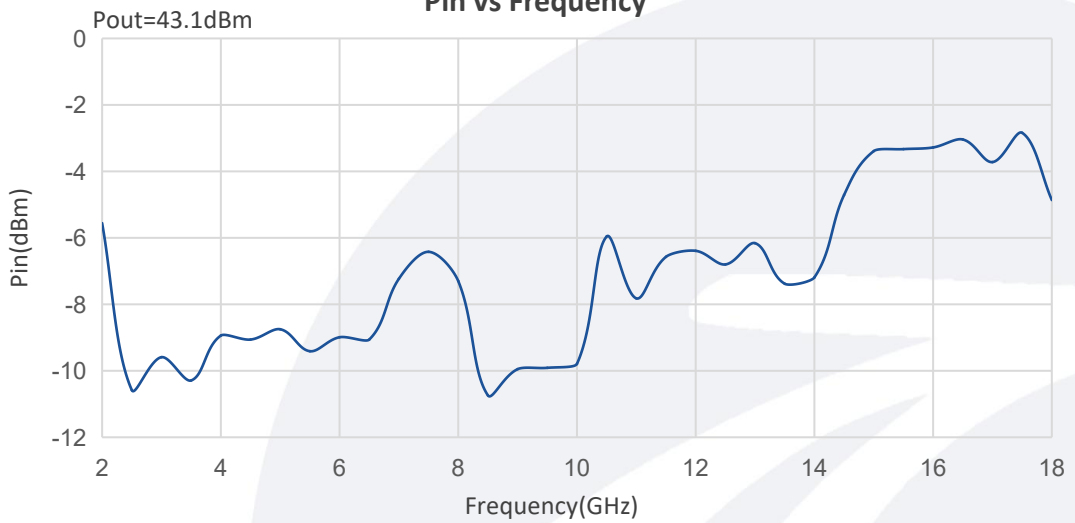
标准型号 Part Number	描述 Description	版本号 Revision
TLPA2G18G-43-43	Power amplifier 2-18GHz, Gain:43dB, Psat:43dBm Typ, +28V DC, Without Heatsink	Rev.1.1
TLPA2G18G-43-43-HS	Power amplifier 2-18GHz, Gain:43dB, Psat:43dBm Typ, +28V DC, With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

**Pout@Equal-pin vs Frequency**



**Pin vs Frequency**

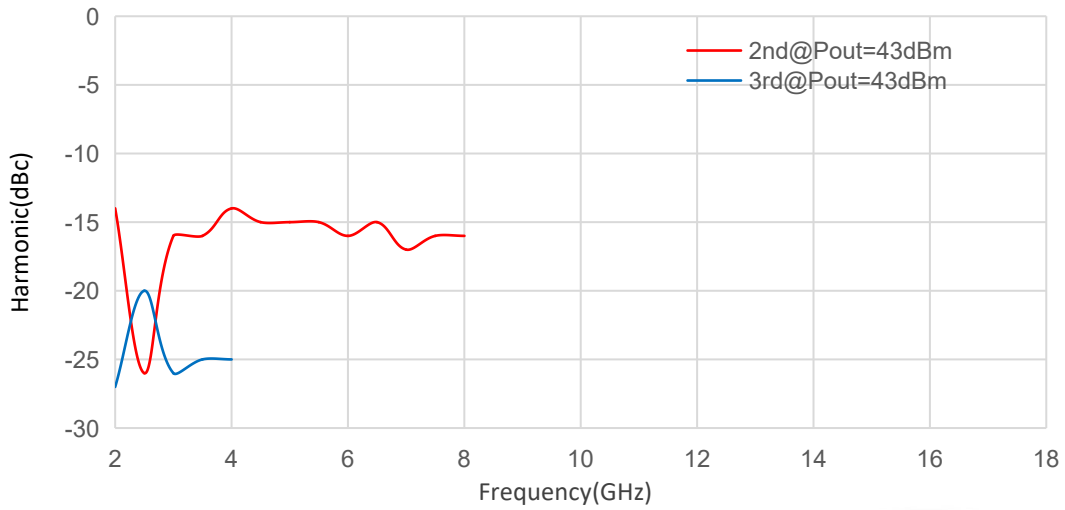


**Spurious vs Frequency**



典型曲线 Typical Performance Data:

Harmonic vs Frequency



Output P1dB vs Frequency

