

**Model: TLPA18G26.5G-47-47**
**Power Amplifier**
**18-26.5GHz, Gain: 47dB, Psat: 47dBm**
**Feature:**

- Ultra Wide Band: 18-26.5GHz
- Gain: 47dB Min
- Psat Output Power: 47dBm 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	18-26.5			GHz
增益 Gain	47	50		dB
增益平坦度 Gain Flatness		±3.5		dB
饱和输出功率 Output Psat	47			dBm
杂散 Spurious			-50	dBc
谐波 Harmonics			-15	dBc
输入驻波 Input VSWR		2	2.5	:1
直流电压 DC Voltage		+24		V DC
直流电流 DC Supply Current			25	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	2.92 Female/2.92 Female	
DC加电接口 DC Power Interface	SUB-7W2	
尺寸 Size	300*264*85	mm
重量 Weight	10	Kg

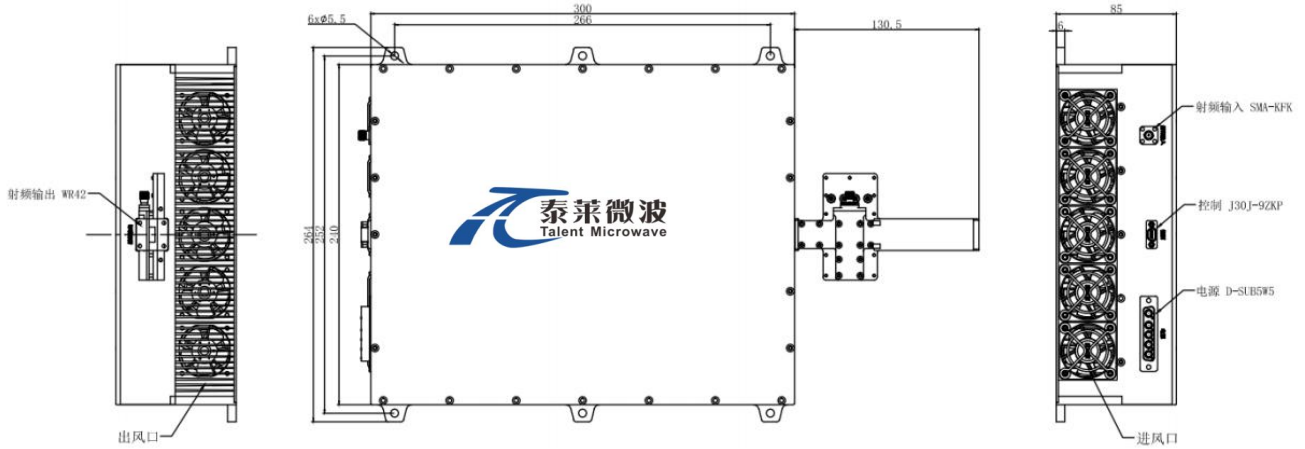
**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System  
Benchtop Amplifier**

外形尺寸 Outline Drawing:

Unit: mm



SUB-7W5 Define	
引脚 Pin	功能 Function
A1	+24V
A2	GND
Pin1-5	NC



温度环境 Environmental Conditions:

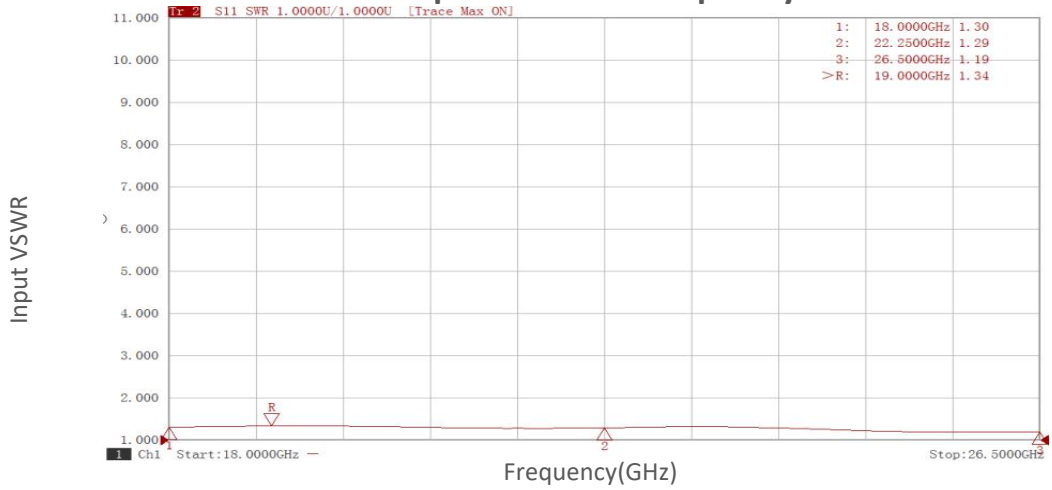
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-20		+40	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

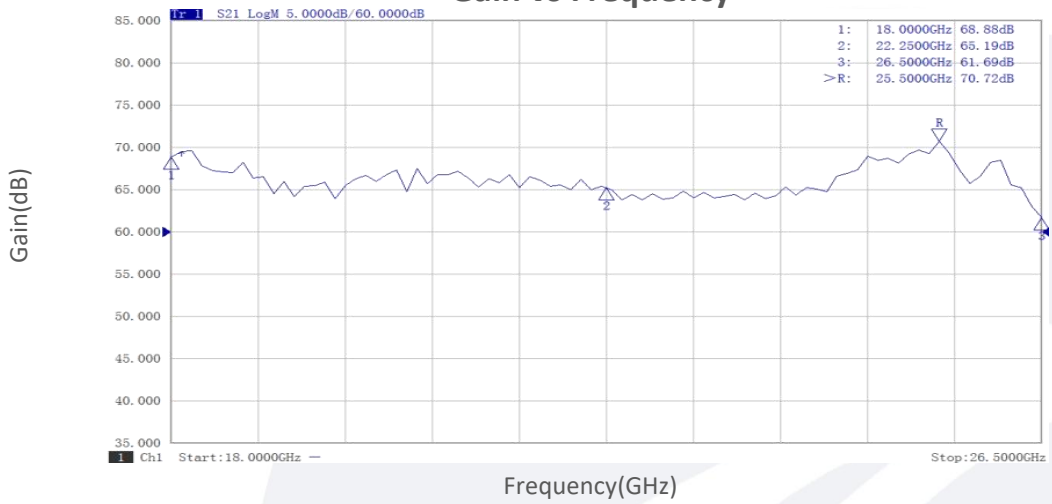
标准型号 Part Number	描述 Description	版本号Revision
TLPA18G26.5G-47-47	Power amplifier 18-26.5GHz, Gain:47dB, Psat:47dBm, +24V DC, Without Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

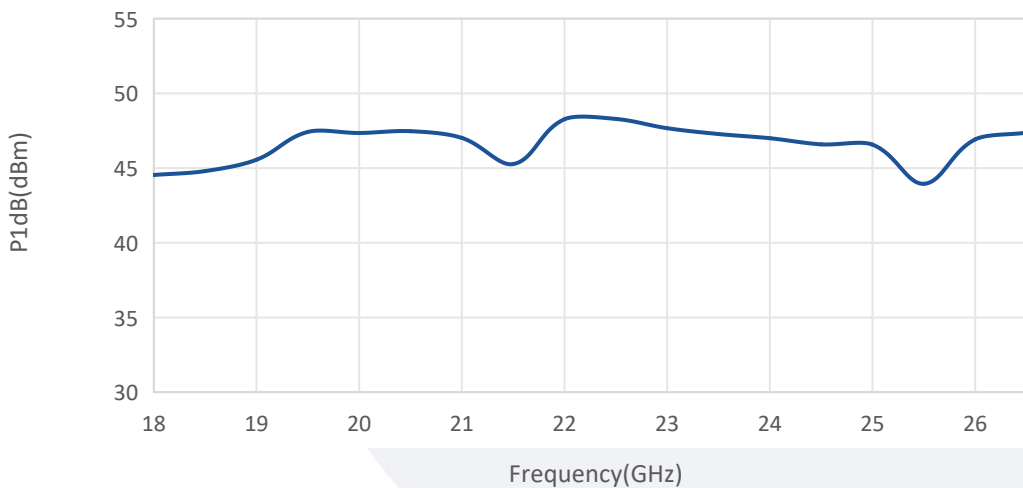
Input VSWR vs Frequency



Gain vs Frequency



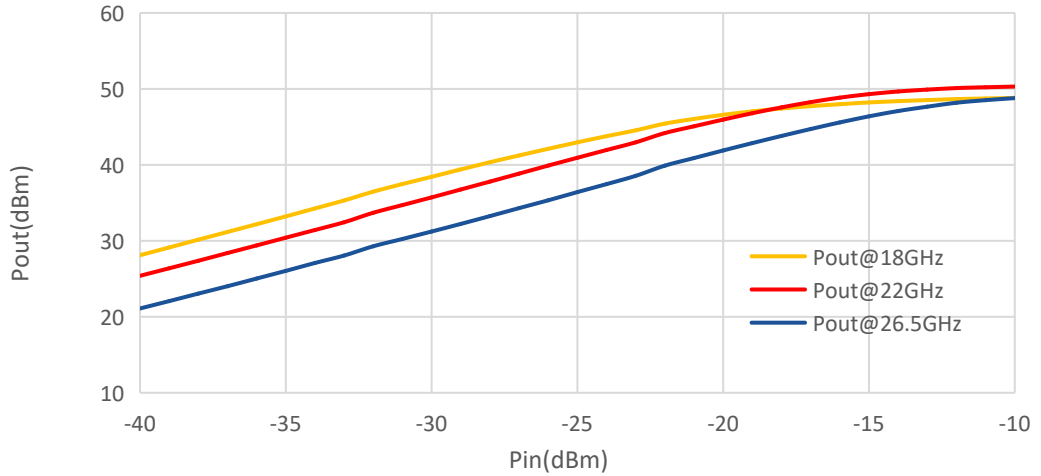
P1dB vs Frequency



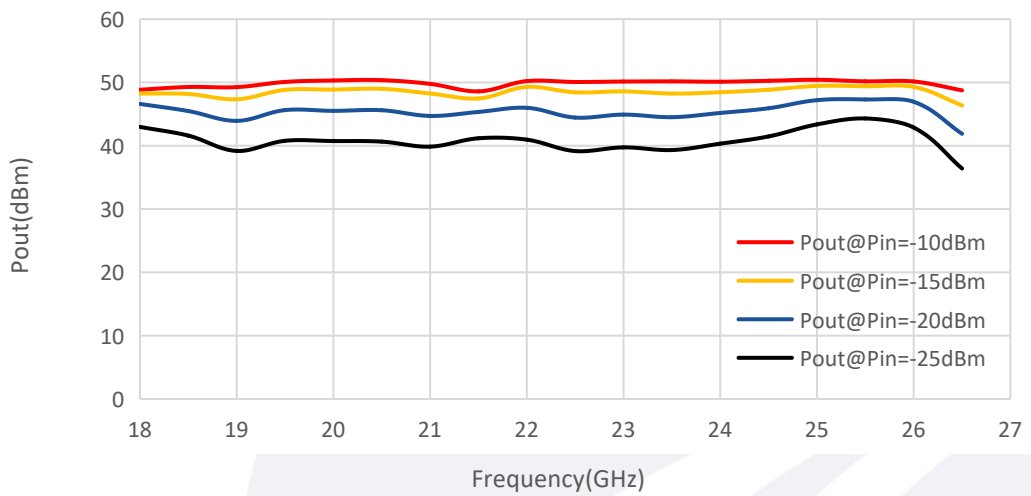
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

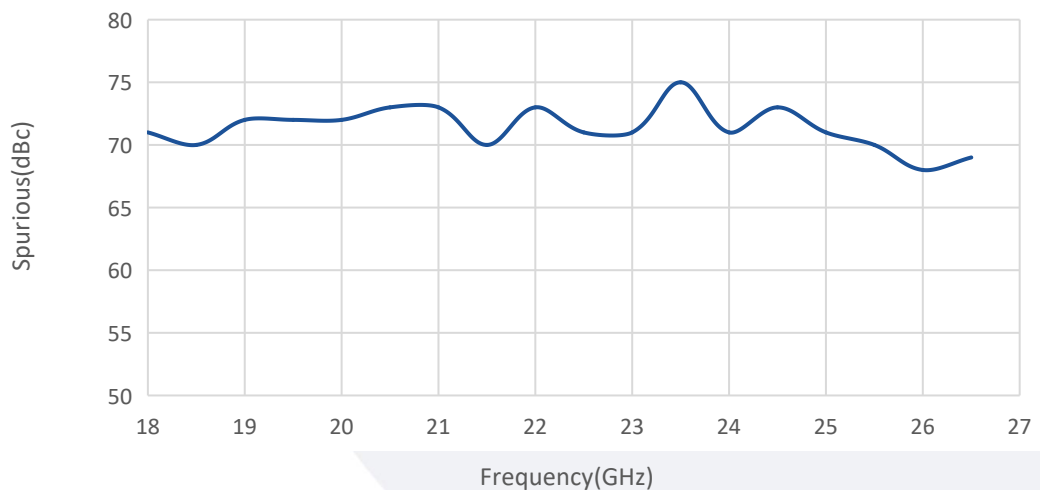
Pout@Pin



Pout@Equal\_Pin



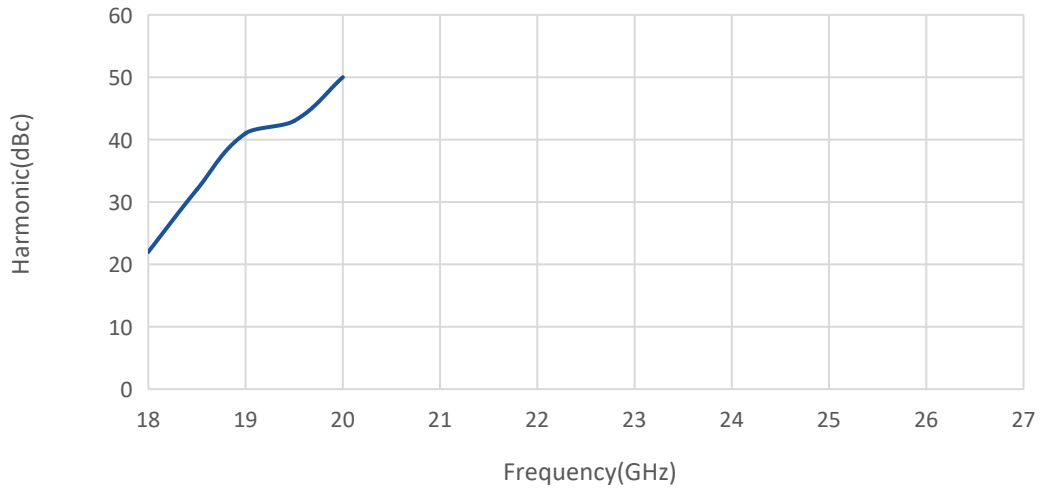
Spurious vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Harmonic vs Frequency



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