

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

- Ultra Wide Band: 18-26.5GHz
- Gain: 47dB
- Psat Output Power: 47dBm
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	代码Symbol	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	BW	18-26.5			GHz
功率增益 Power Gain	Gp	47	50		dB
增益平坦度 Gain Flatness	ΔG		± 3.5		dB
饱和输出功率 Output Psat	Psat	47			dBm
输入功率 Input Power	Pin		0	10	dBm
杂散 Spurious@Pout=46dBm	Spur	50			dBc
谐波 Harmonics@Pout=46dBm	2nd			15	dBc
输入驻波比 Input VSWR	VSWRin		2.0	2.5	:1
直流电压 DC Voltage	Vdc		+24		V DC
直流电流 DC Supply Current	Idc			25	A
阻抗 Impedance	I/O-IMP	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	2.92mm Female/WR42	
DC加电接口 DC Power Interface	SUB-7W2	
通信接口 Communication Interfaces	J30J-9	
尺寸 Size	280*198*90	mm
重量 Weight	10	Kg

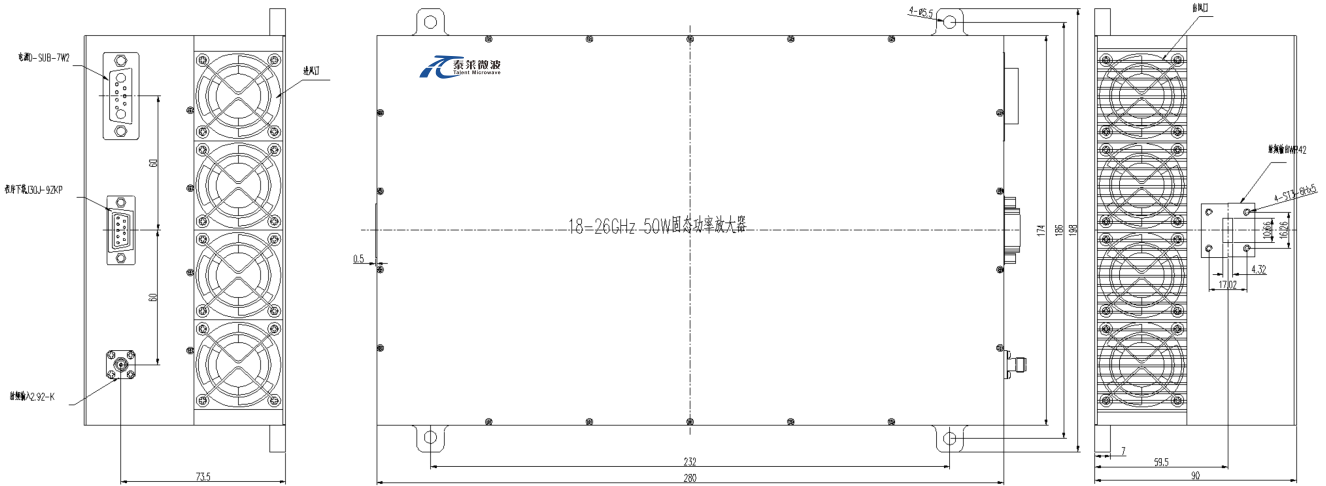
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF INPUT POWER	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(Inches)



SUB-7W5 Define

引脚 Pin #	功能 Function
A1	+24V
A2	GND
1-5	NC



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

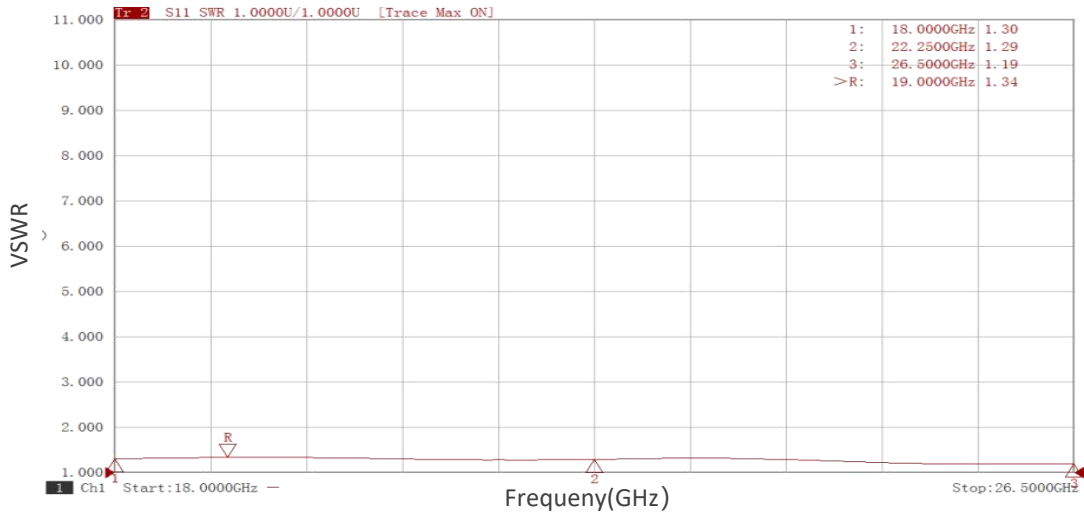
参数 Parameter	Min.	Typ.	Max.	单位 Units
操作温度 Operating Temperature	-20		+40	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc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

订货信息 Ordering Information:

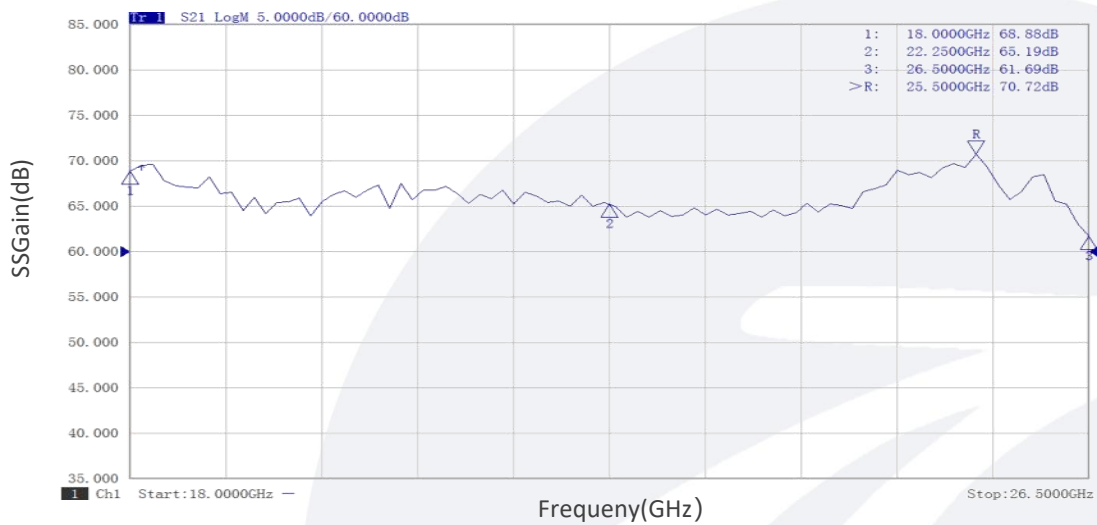
标准型号 Part Number	描述 Description	版本号 Revision
TLPA18G26.5G-47-47	Solid State High Power Amplifier,18-26.5GHz,Gain:47dB,Psat:47dBm,24V DC	Rev.1.1

典型曲线 Typical Performance Data:

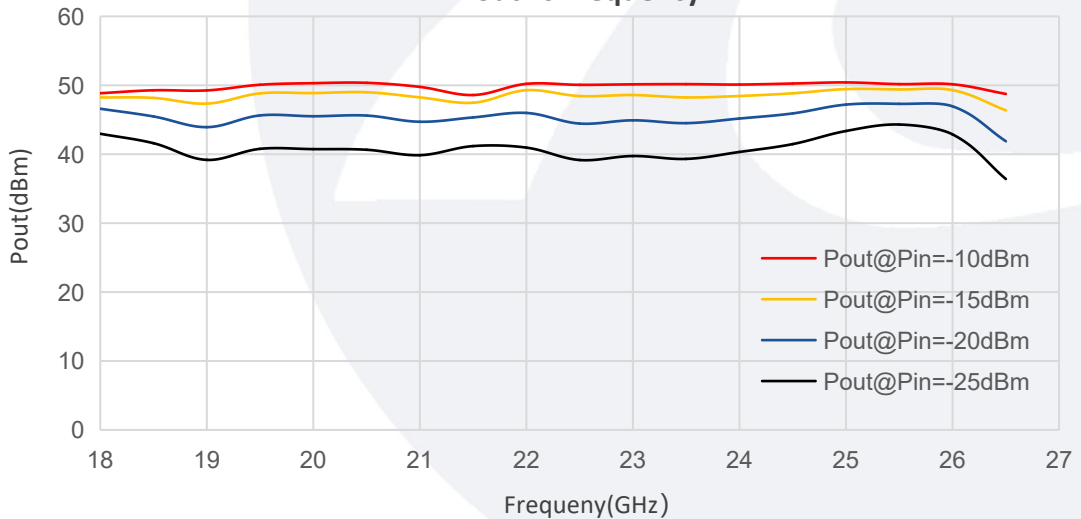
VSWR vs Frequency



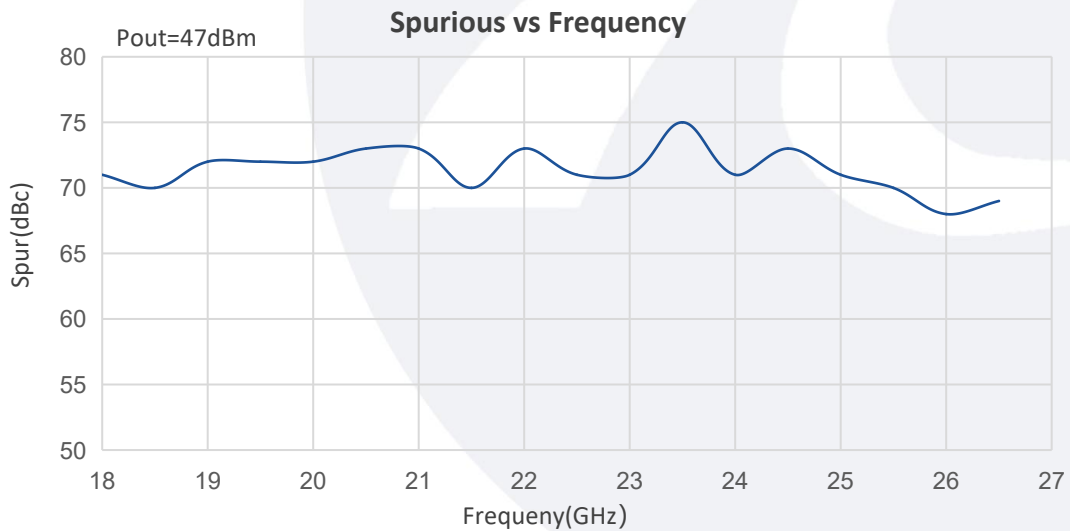
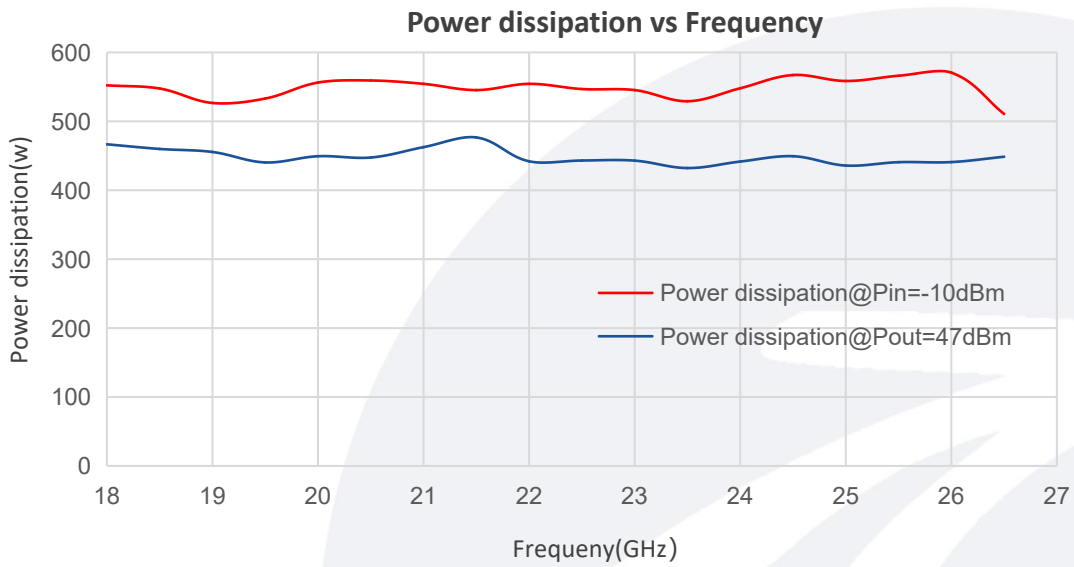
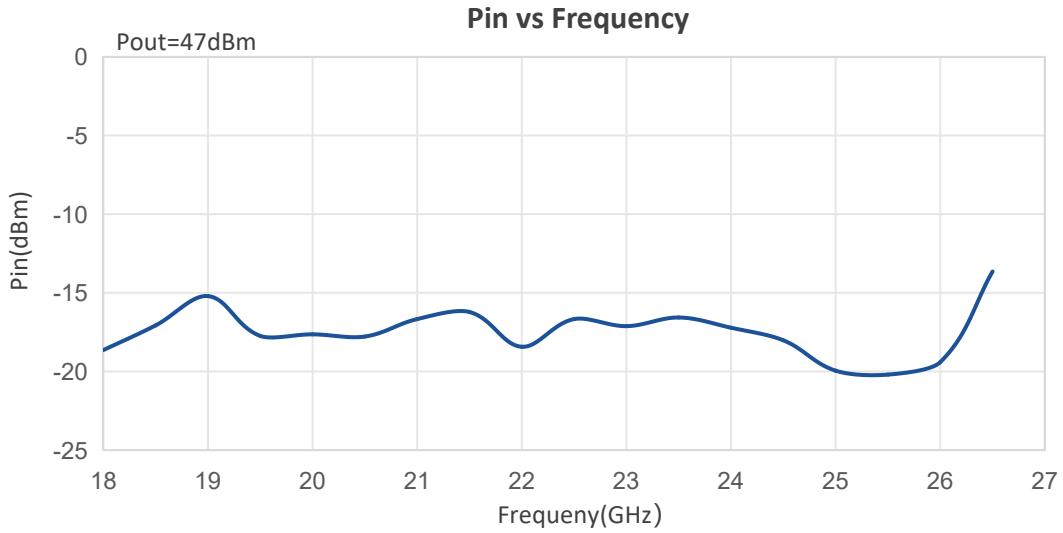
Small Signal Gain vs Frequency



Pout vs Frequency



典型曲线 Typical Performance Data:



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