

Model:TLPA18G26.5G-35-35

Power Amplifier

18-26.5GHz, Gain:35dB, P1dB:35dBm

Feature:

- Ultra Wide Band:18-26.5GHz
- Gain:35dB Min
- P1dB Output Power:35dBm 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	35			dB
增益平坦度 Gain Flatness			±2	dB
线性输出功率 Output P1dB	35			dBm
饱和输出功率 Output Psat	40	41		dBm
杂散 Spurious			-50	dBc
谐波 Harmonics			-20	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage	+18	+20	+22	V DC
功耗 Power Consumption			70	W
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	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	150*90*20	mm
重量 Weight	500	g

绝对最大值 Absolute Maximum Ratings:

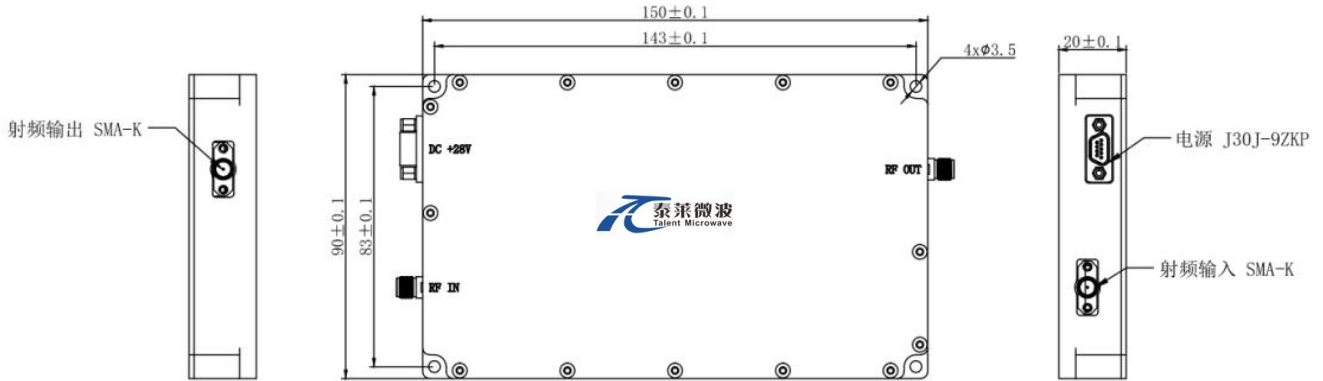
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	1-5:+20V 6-9:GND
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm



J30J-9ZKP	
Pin	Function
1-5	+22V
6-9	GND

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

温度环境 Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

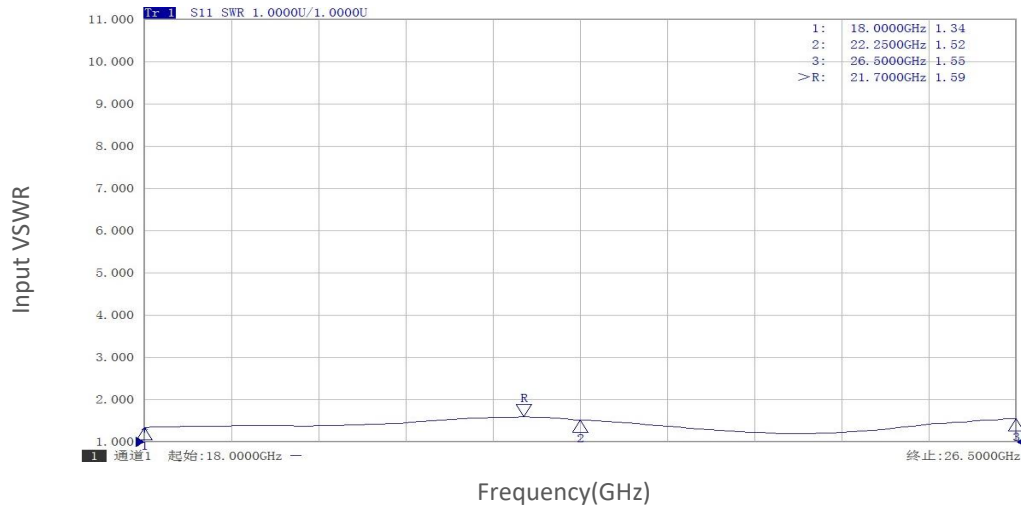
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	0		+40	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

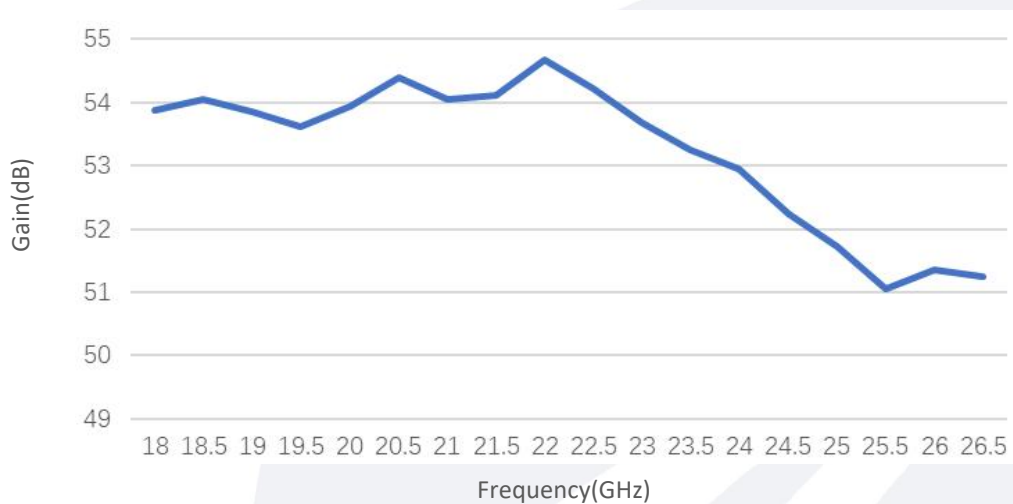
标准型号 Part Number	描述 Description	版本号Revision
TLPA18G26.5G-35-35	Power amplifier 18-26.5GHz,Gain 35dB,P1dB:35dBm,+22V DC,Without Heatsink.	Rev.1.1
TLPA18G26.5G-35-35-HS	Power amplifier 18-26.5GHz,Gain 35dB,P1dB:35dBm,+22V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

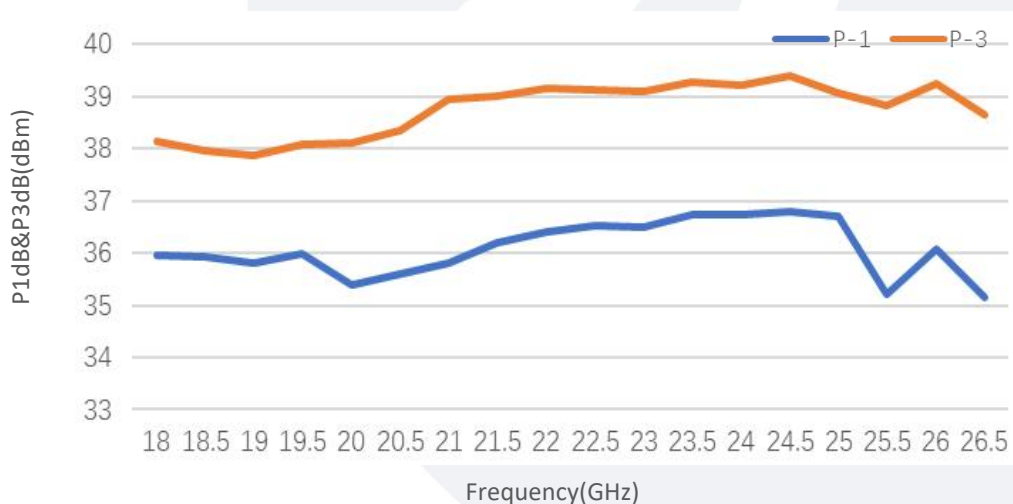
Input VSWR vs Frequency



Gain vs Frequency

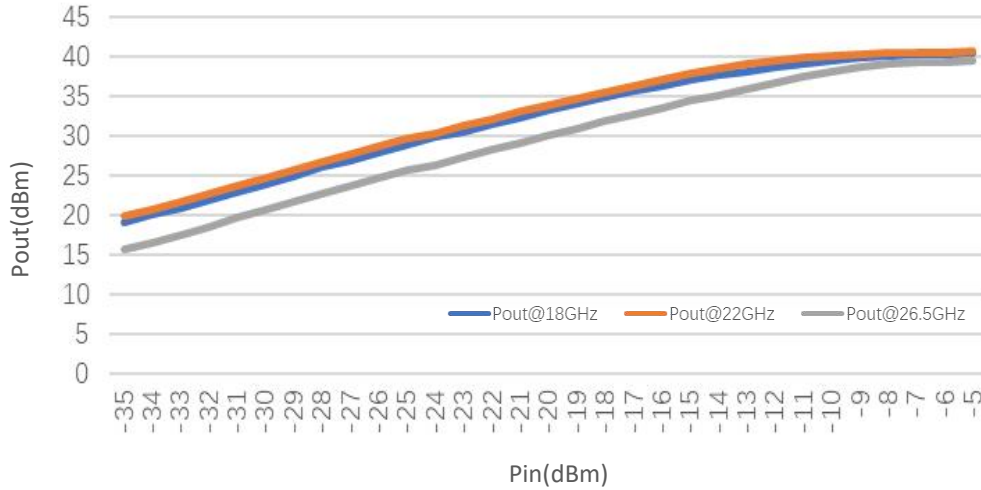


P1dB&P3dB vs Frequency

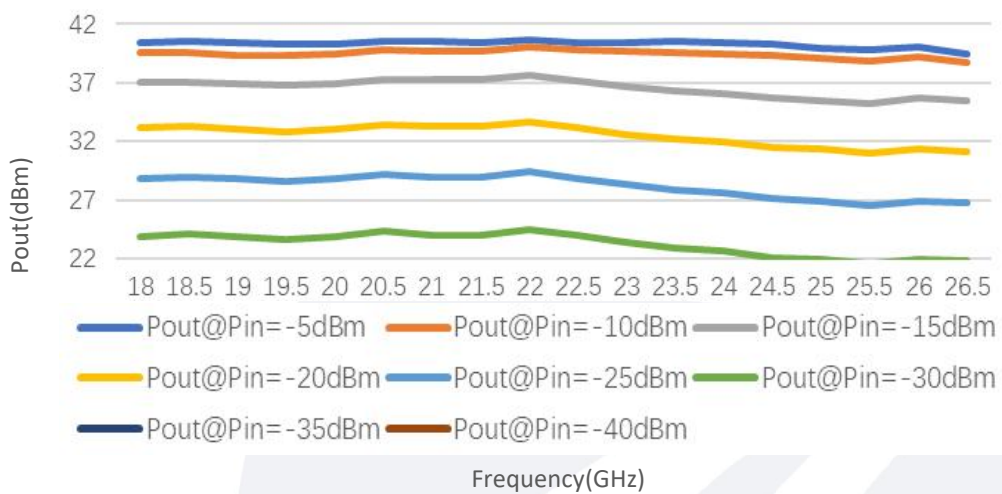


典型曲线 Typical Performance Data:

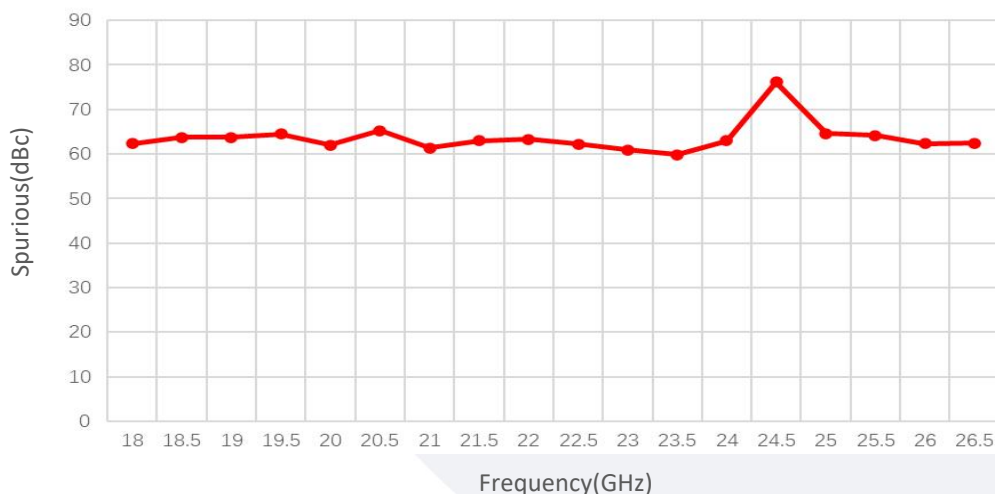
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



典型曲线 Typical Performance Data:

2nd Harmonic vs Frequency

