

Model:TLPA18G26.5G-18-30
Power amplifier
18-26.5GHz,Gain:18dB,P1dB:30dBm,Psat:32dBm
Feature:

- Ultra Wide Band: 18-26.5GHz
- Gain: 18dB Min
- Psat Output Power: 32dBm 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	18-26.5			GHz
增益 Gain	18	21		dB
增益平坦度 Gain Flatness		±2.0	±2.5	dB
线性输出功率P1dB	30	31		dB
饱和输出功率 Psat		32		dBm
输入驻波 Input VSWR		2.0	2.2	:1
输出驻波 Output VSWR		2.0	2.2	:1
最大输入功率 Input Max Power			15	dBm
直流电压 DC Voltage		12		V DC
直流电流 DC Supply Current	500			mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

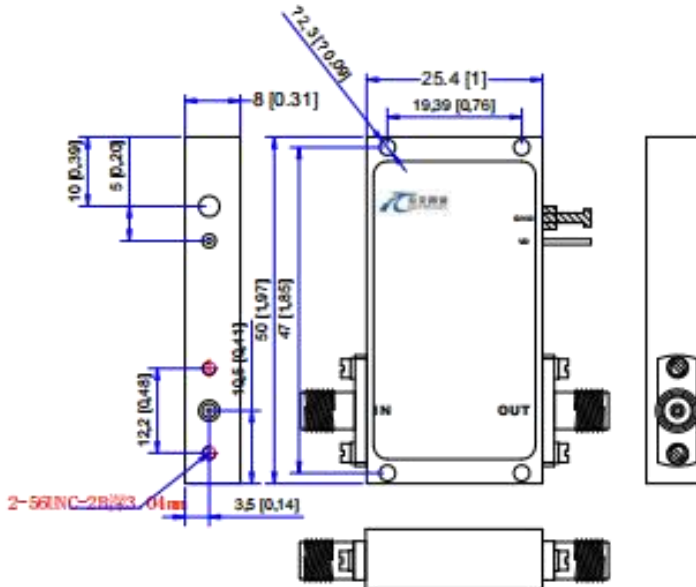
参数Parameter	指标 Value	单位 Units
输入输出接Input /Output Connector	2.92mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	50*25.4*8	mm
重量 Weight	200	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12 V
输入功率 RF INPUT POWER	15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(inches)



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

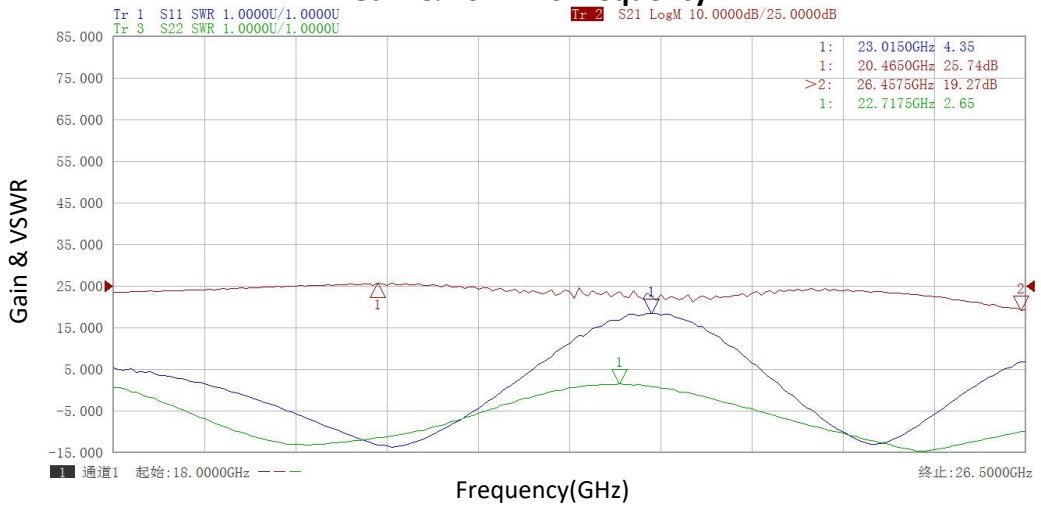
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		50,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

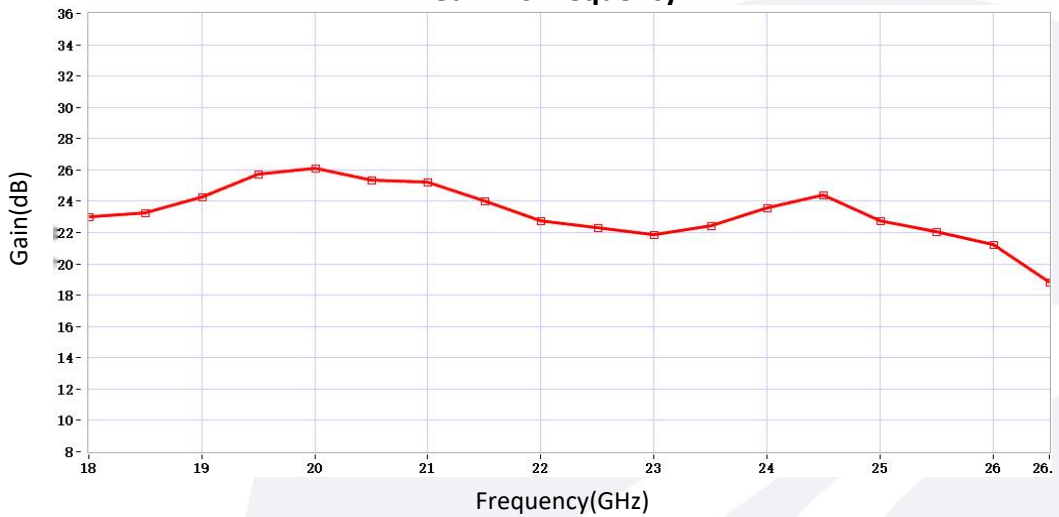
标准型号 Part Number	描述 Description	版本号Revision
TLPA18G26.5G-18-30	Power amplifier 18-26.5 GHz,Gain:18dB,P1dB:30dBm,12V DC,Without Heatsink	Rev.1.1
TLPA18G26.5G-18-30-HS	Power amplifier 18-26.5 GHz,Gain:18dB,P1dB:30dBm,12V DC With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

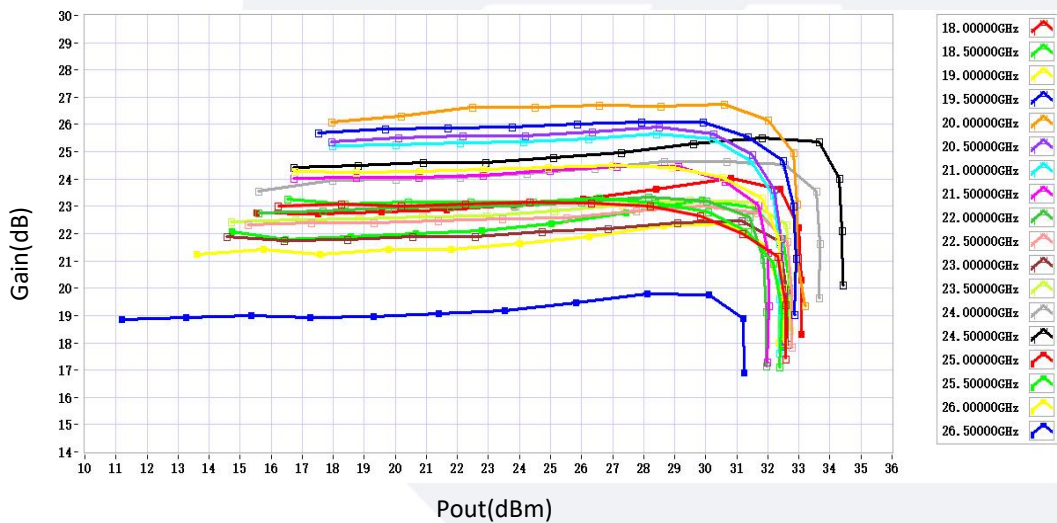
Gain & VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



典型曲线 Typical Performance Data:

P1dB vs Frequency

