

Model:TLPA0.01G18G-31-25
Power Amplifier
0.01-18GHz,Gain:31dB,P1dB:25dB
Feature:

- Ultra Wide Band: 0.01-18GHz
- Gain: 30dB Type
- Psat Output Power: 27 dBm Type
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output
- Noise Figures degrade below 500 MHz.

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.01-18			GHz
增益 Gain	27	31		dB
增益平坦度 Gain Flatness		±2.5		dB
噪声系数 Noise Figure		2.5	5.5	dB
线性输出功率P1dB	24	25		dB
饱和输出功率 Psat	25	27		dBm
输入驻波 Input VSWR		2	2.5	:1
输出驻波 Output VSWR		1.8	2.4	:1
直流电压 DC Voltage	10.5	12	15	V DC
直流电流 DC Supply Current	450			mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

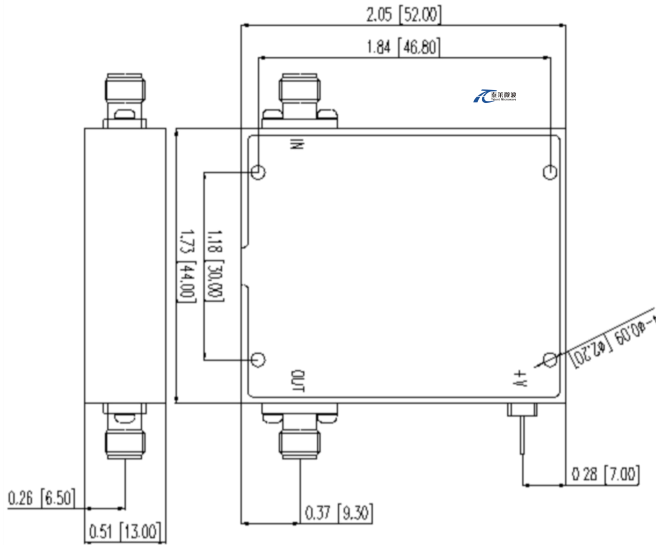
参数Parameter	指标 Value	单位Units
输入输出接Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	/	mm
重量 Weight	50	g


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

外形尺寸 Outline Drawing:

Unit: mm(inches)



温度环境 Environmental Conditions:

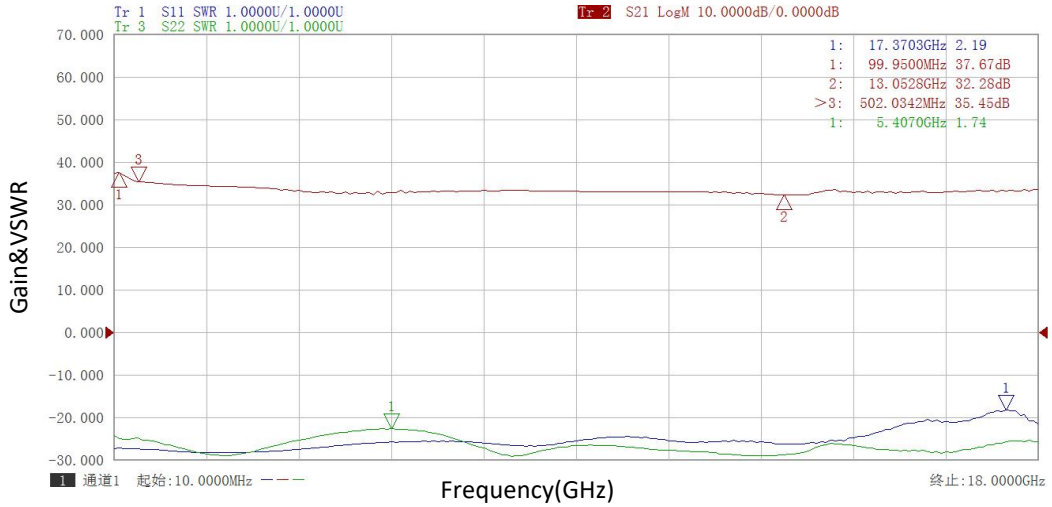
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

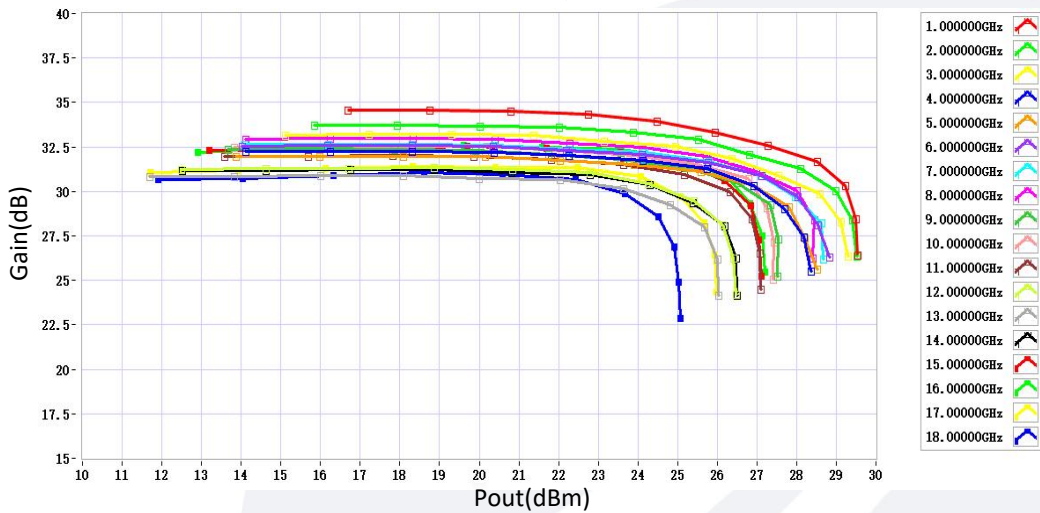
标准型号 Part Number	描述 Description	版本号Revision
TLPA0.01G18G-31-25	Power amplifier 0.01-18GHz,Gain:31dB,SMA-Female	Rev.1.1

典型曲线 Typical Performance Data:

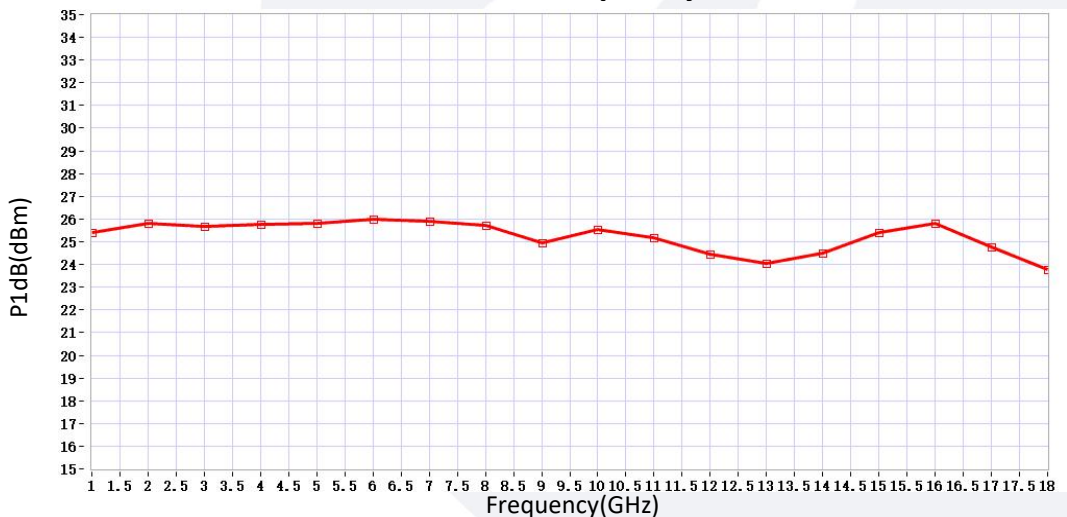
Gain&VSWR vs Frequency



Gain vs Output Power

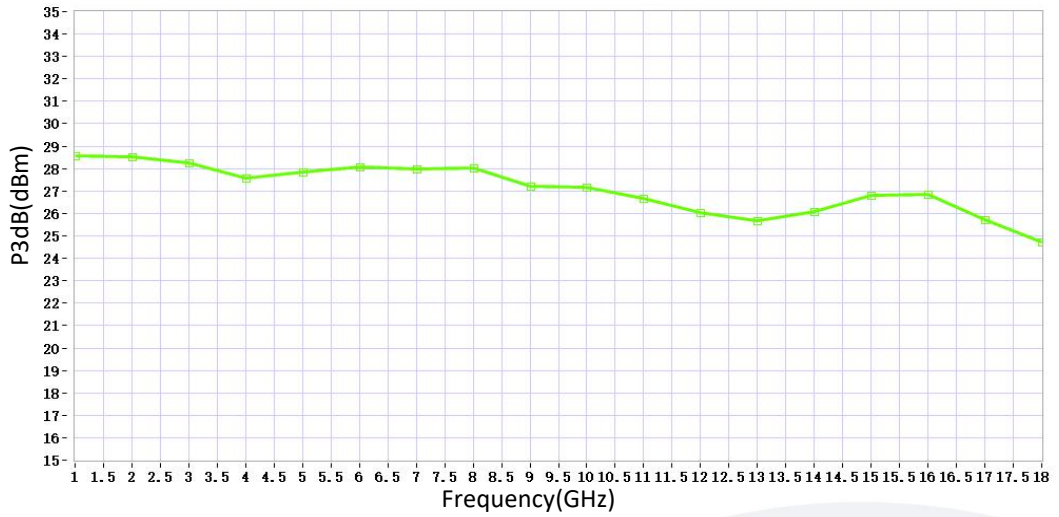


P1dB vs Frequency



典型曲线 Typical Performance Data:

P3dB vs Frequency



PSat vs Frequency

