

Model: TLPA18G50G-35-20

Power Amplifier 18-50GHz, Gain: 35dB, Psat: 19dBm

Feature:

- Ultra Wide Band: 18-50GHz
- Gain: 35dB Typ
- Psat Output Power: 19dBm Typ
- 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	18-50			GHz
增益 Gain	32	35		dB
增益平坦度 Gain Flatness		±1.5	±2.5	dB
线性输出功率 Output P1dB		17		dBm
饱和输出功率 Output Psat		19		dBm
输入驻波 Input VSWR		1.8	2.5	:1
输出驻波 Output VSWR		1.8	2.5	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		700		mA
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	2.4 Female/2.4 Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	44.*29.2*11	mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

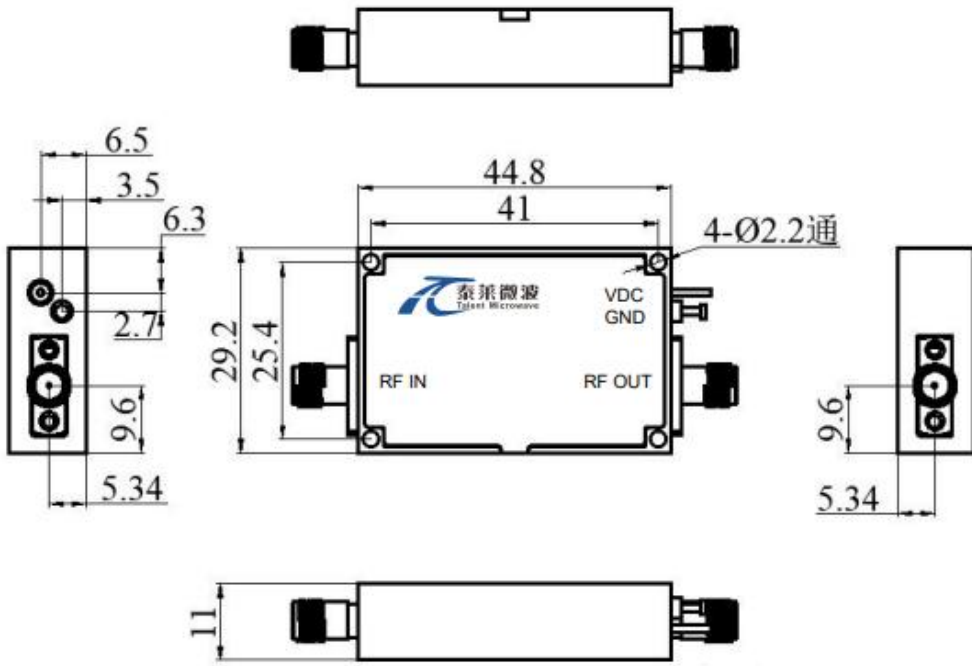
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12V
输入功率 RF Input Power	-5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm



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



温度环境 Environmental Conditions:

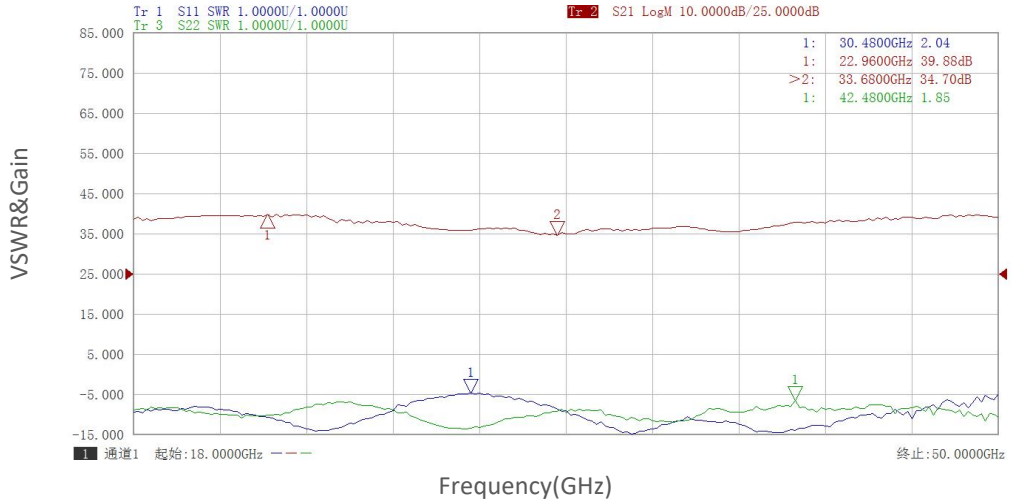
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+75	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

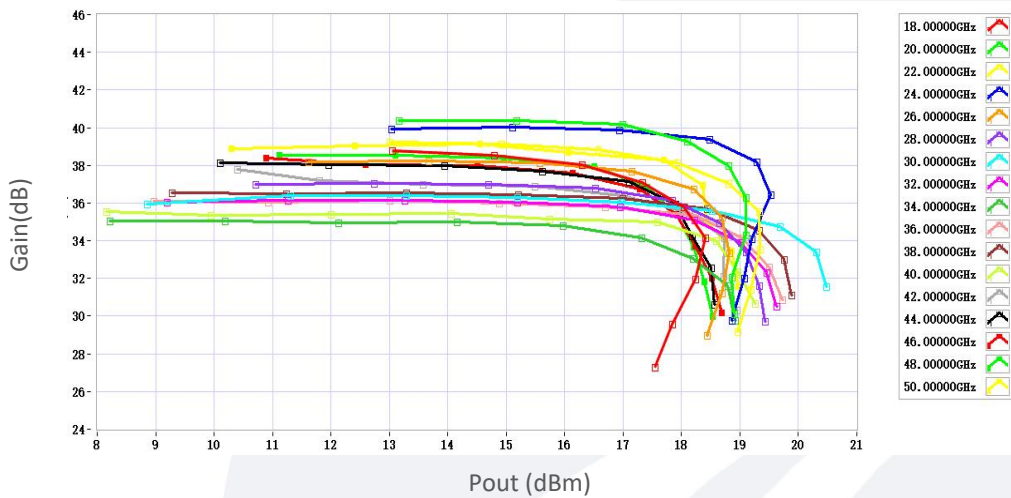
标准型号 Part Number	描述 Description	版本号Revision
TLPA18G50G-35-20	Power amplifier 18-50GHz,Gain:35dB,Psat:19dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA18G50G-35-20-HS	Power amplifier 18-50GHz,Gain:35dB,Psat:19dBm,+12V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

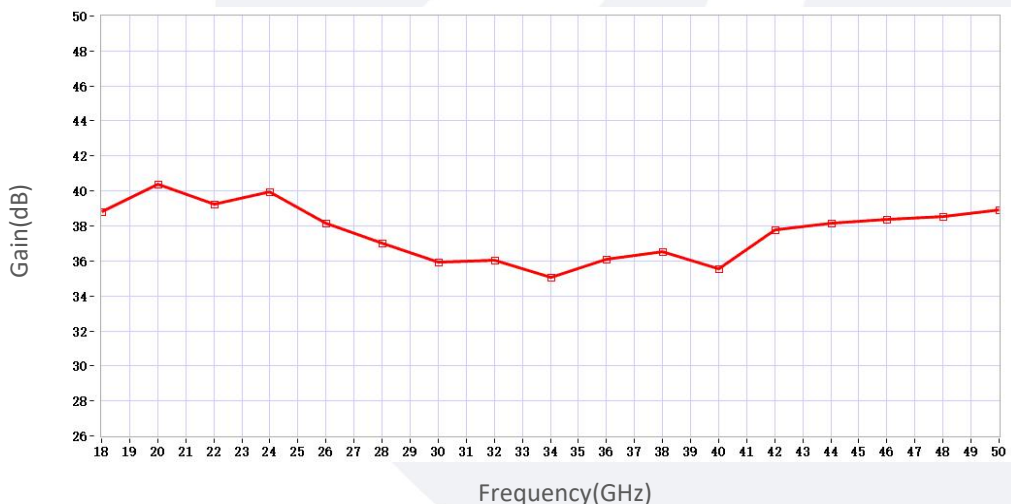
VSWR&Gain vs Frequency



Gain vs Output Power

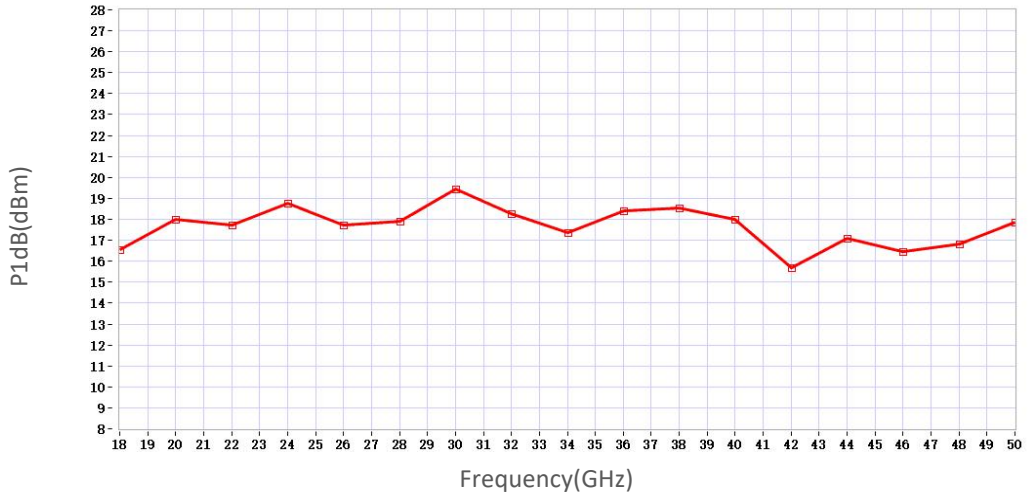


Gain vs Frequency



典型曲线 Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

