

Model: TLLA50K43G-15-50
**Low noise amplifier, 2.92mm (f),
50K-43GHz, NF:5.0dB, Gain:15dB**
Feature:

- Ultra Wide Band: 50K-43GHz
- Gain: 15dB Typ
- Noise Figure: 5.0dB Typ
- Unconditional stability
- 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	50K-43GHz			GHz
增益 Gain		15		dB
噪声系数 Noise Figure		5		dB
输出功率1dB压缩点 Output P1dB		14		dBm
输入驻波 Input VSWR		2.0		: 1
输出驻波 Output VSWR		2.0		: 1
直流电压 DC Voltage		+12		V DC
直流供电 DC power supply		100		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical :

参数Parameter	指标 Value
输入接口 Input Connector	2.92mm-Female
输出接口 Output Connecto	2.92mm-Female
供电引脚 Power Supply Pin	Solder Pin
尺寸 Size	/

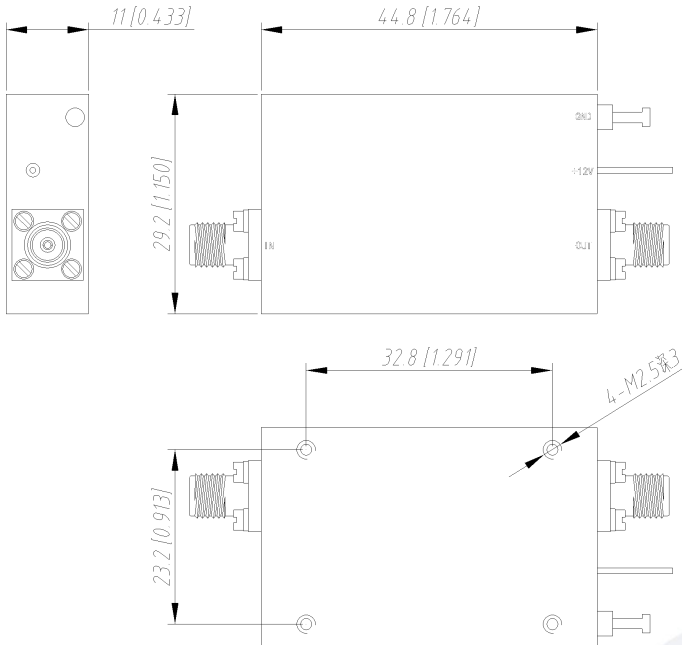
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
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)



温度环境 Environmental Conditions:

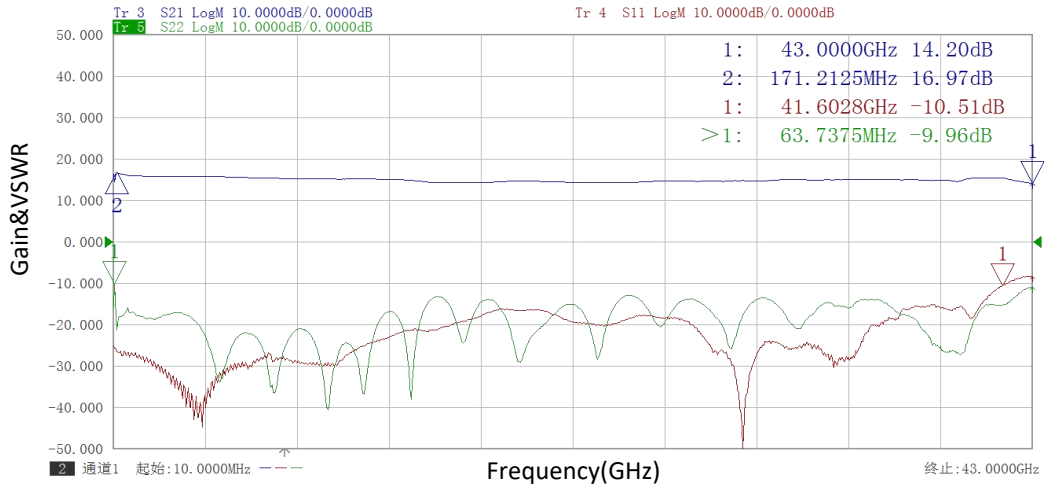
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)		Airborne		
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

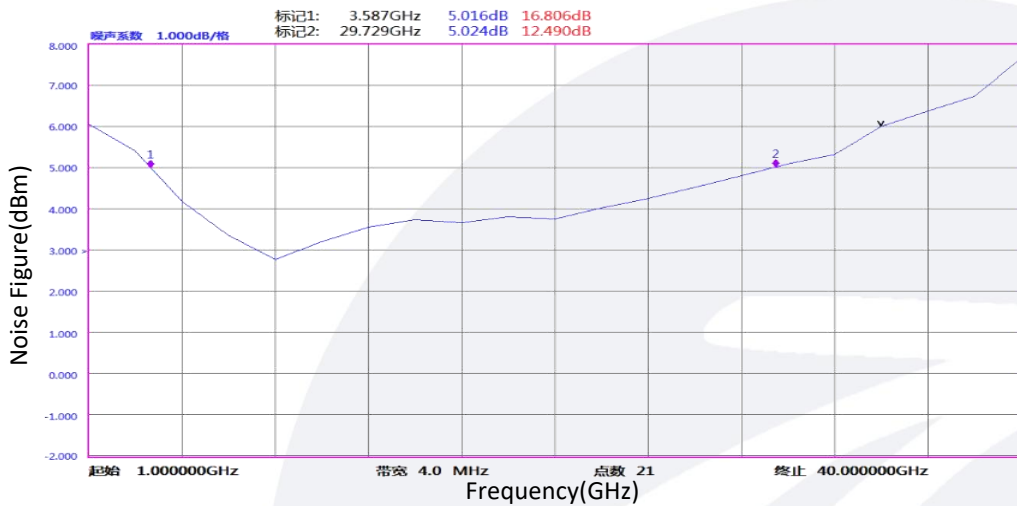
标准型号 Part Number	描述 Description	版本号Revision
TLLA50K43G-15-50	Low noise amplifier, 2.92mm (f), 50K-43GHz, NF:5.0dB, Gain:15dB	Rev.1.1

典型曲线 Typical Performance Data:

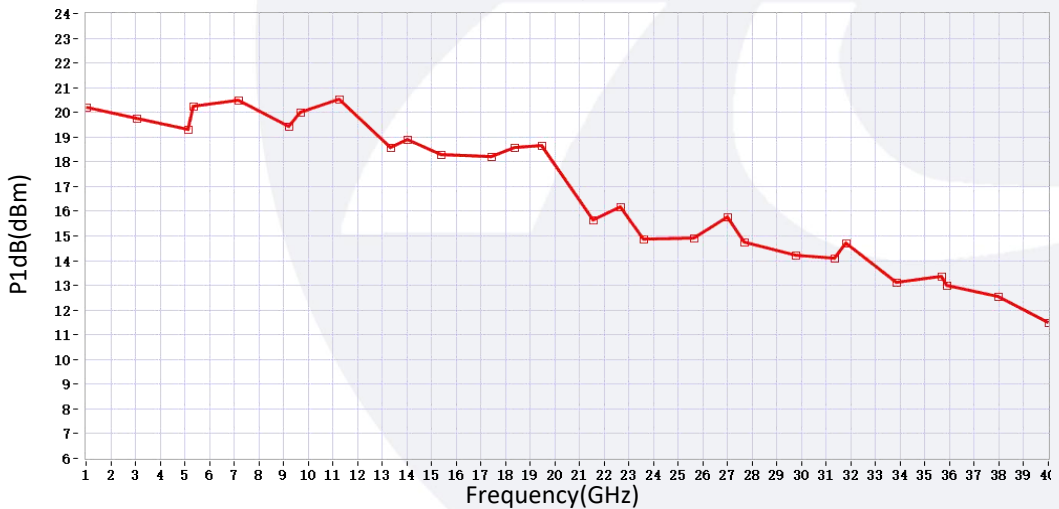
Gain&VSWR vs Frequency



Noise Figure vs Frequency

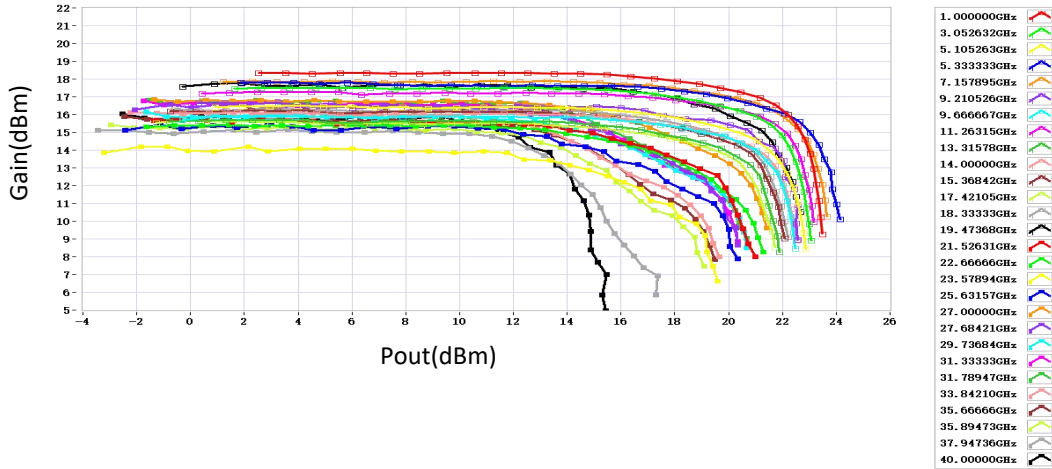


P1dB vs Frequency

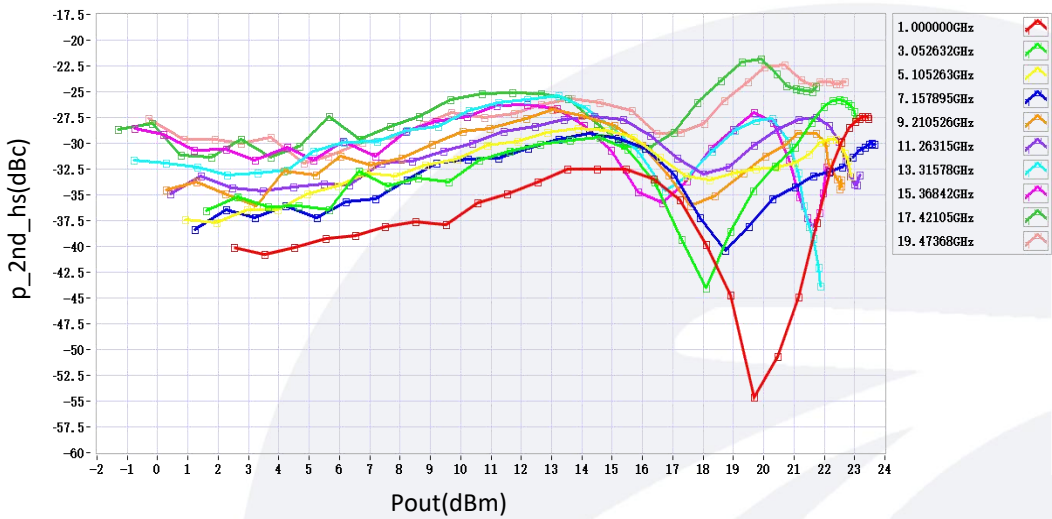


典型曲线 Typical Performance Data:

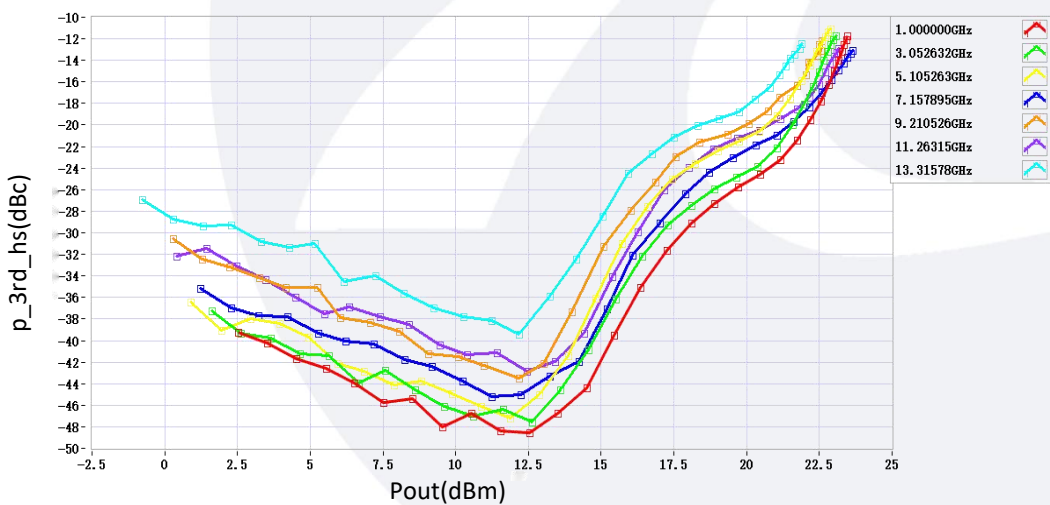
P1dB vs Output Power



2nd Harmonic(dBc) vs Output Power



3rd Harmonic(dBc) vs Output Power



典型曲线 Typical Performance Data:

Current vs Output Power

