

Model:TLLA35G50G-44-20

Low Noise Amplifier

35-50GHz, NF:2.0dB, Gain:44dB,P1dB:12dBm

Feature:

- Ultra Wide Band: 35-50GHz
- Gain:44dB Type
- Noise Figure: 2.0dB 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	35-50			GHz
增益 Gain	40	44		dB
增益平坦度 Gain Flantness		±2.0	±3.0	dB
噪声系数 Noise Figure		2.0	2.5	dB
线性输出功率P1dB		12		dBm
输入驻波 Input VSWR		2.0	3.0	:1
输出驻波 Output VSWR		2.0	3.0	:1
直流电压 DC Voltage		8	12	V DC
直流供电 DC power supply		25		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

参数Parameter	指标 Value
输入输出接口 Input /Output Connector	2.4mm Female
直流偏置 Bias	Solder Pin
尺寸 Size	44.8mm*29.2mm*11mm
重量 Weight	55g



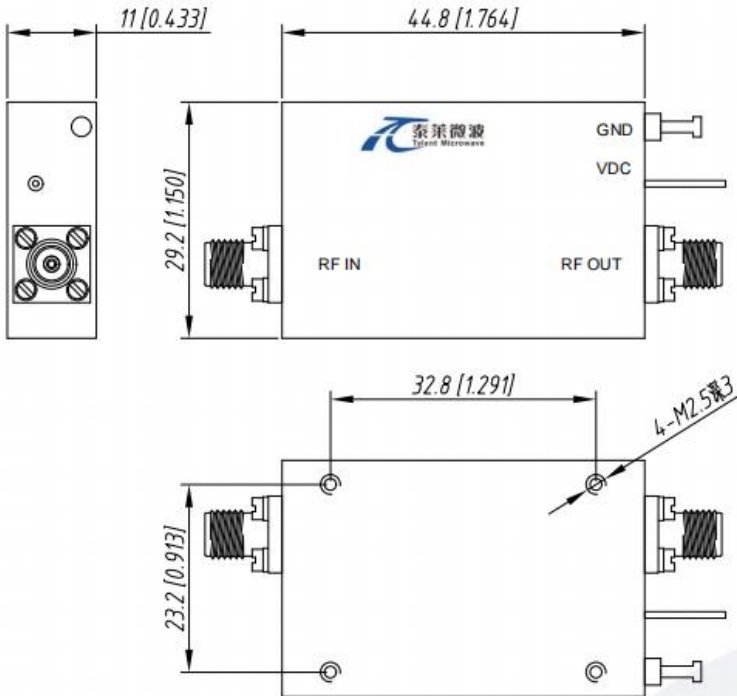
Available 220V System
Benchtop Amplifier

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	0 dB
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**

温度环境 Environmental Conditions:

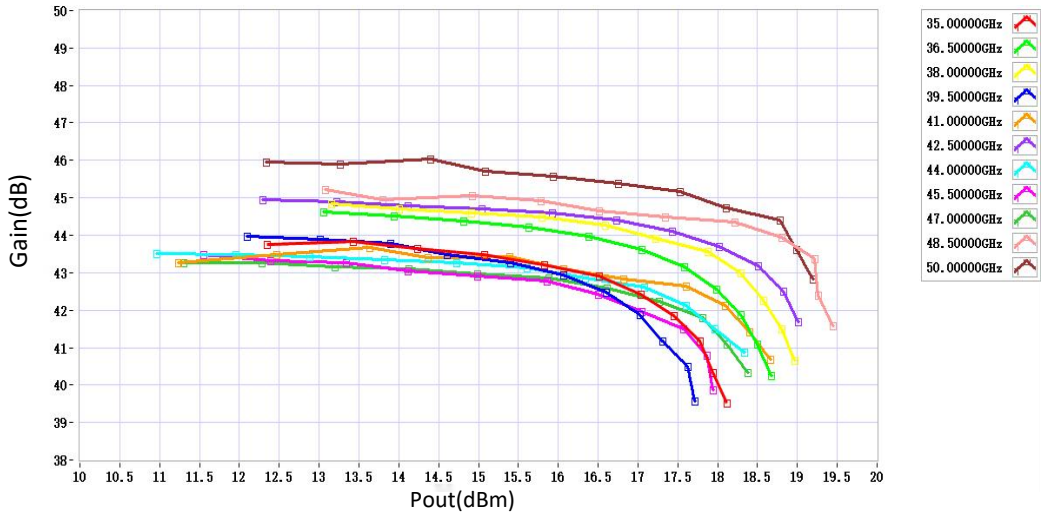
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)		Airborne		
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

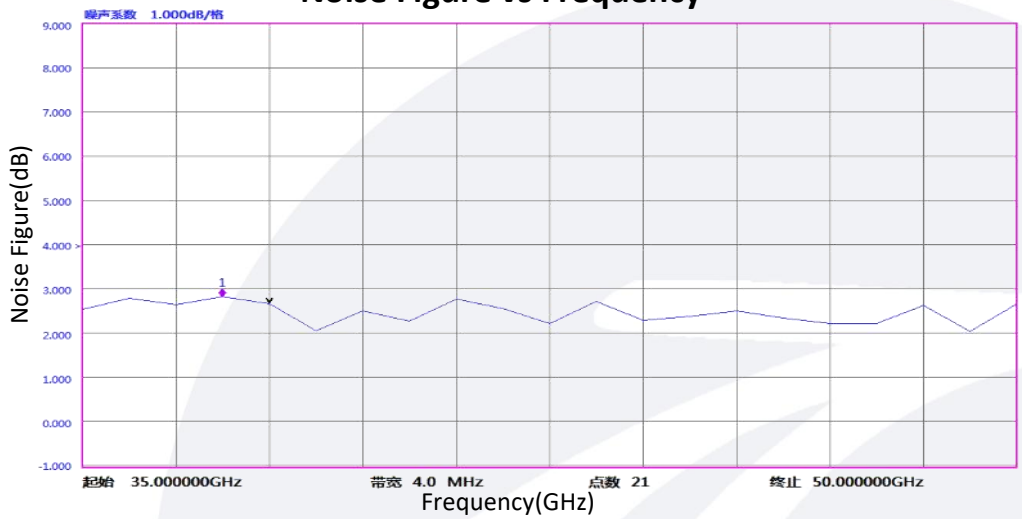
标准型号 Part Number	描述 Description	版本号Revision
TLLA35G50G-44-20	Low Noise Amplifier,35-50GHz,Noise Figure:2.0dB, Gain:44dB,P1dB:12dBm,8V DC,Without Heatsink	Rev.1.1
TLLA35G50G-44-20-HS	Low Noise Amplifier,35-50GHz,Noise Figure:2.0dB, Gain:44dB,P1dB:12dBm,8V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Gain vs Output Power



Noise Figure vs Frequency



P1dB vs Frequency

