

Model: TLPA0.7G20G-32-22
Power Amplifier
0.7-20GHz, Gain: 32dB, P1dB: 23dBm
Feature:

- Ultra Wide Band: 0.7-20GHz
- Gain: 32 dB Typ
- Output P1dB: 23 dBm 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	0.7-20			GHz
增益 Gain	30	32		dB
增益平坦度 Gain Flatness		±2		dB
输出功率1dB压缩点 Output P1dB	22	23		dBm
噪声系数 Noise Figure		3	4.5	dB
输入驻波 Input VSWR		1.5		:1
输出驻波 Output VSWR		1.5		:1
直流电压 DC Voltage	+12			V DC
直流电流 DC Supply Current	0.3			A
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	2.92mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	44*36*11	mm
重量 Weight	50	g

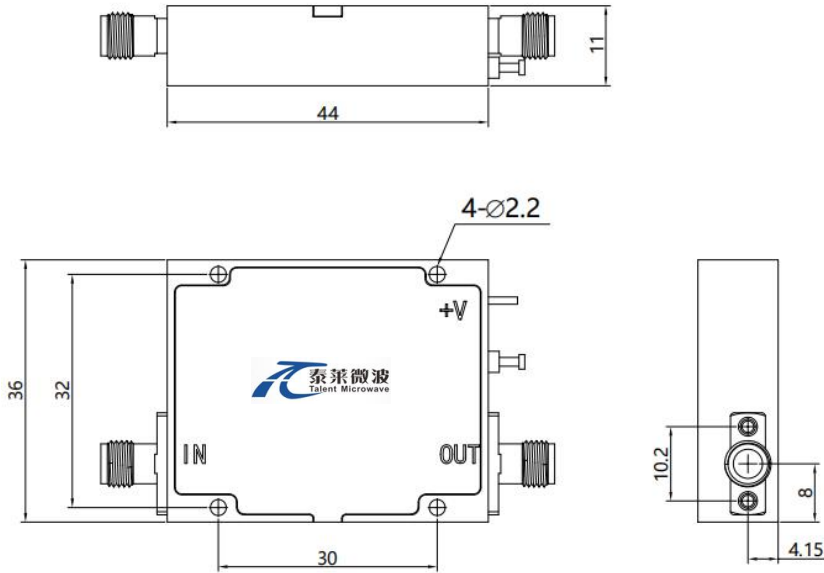
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	+15 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



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

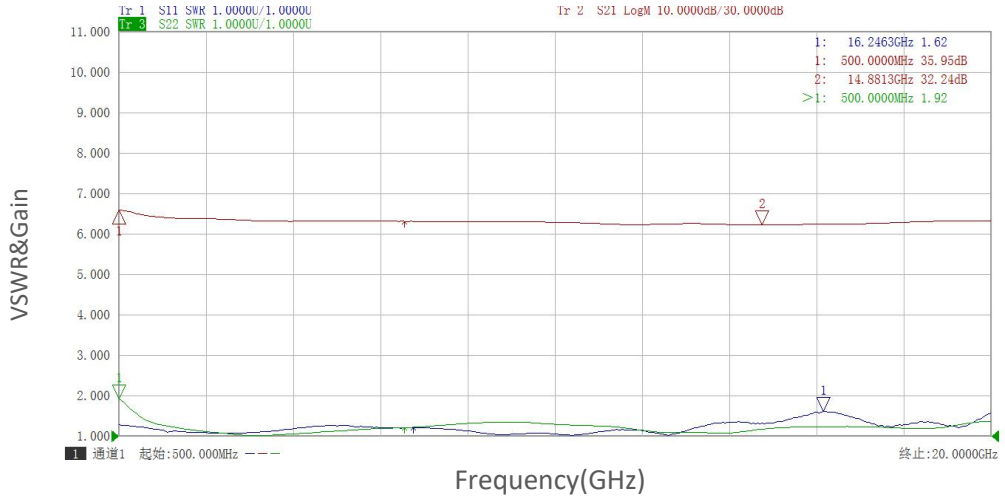
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+75	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

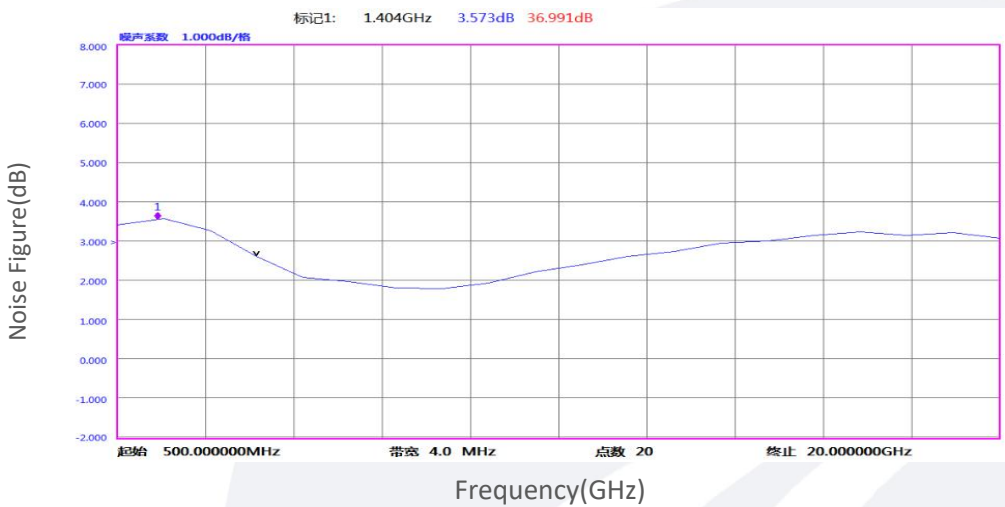
标准型号 Part Number	描述 Description	版本号 Revision
TLPA0.7G20G-32-22	Power amplifier 0.7-20GHz, Gain:32dB, P1dB:23dBm, +12V DC, Without Heatsink	Rev.1.1
TLPA0.7G20G-32-22-HS	Power amplifier 0.7-20GHz, Gain:32dB, P1dB:23dBm, +12V DC, With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

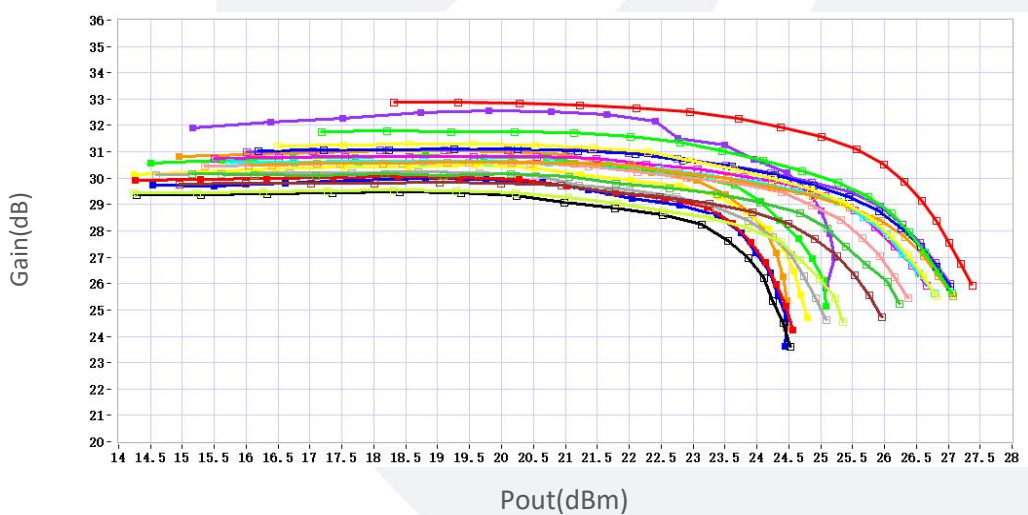
VSWR&Gain vs Frequency



Noise Figure vs Frequency

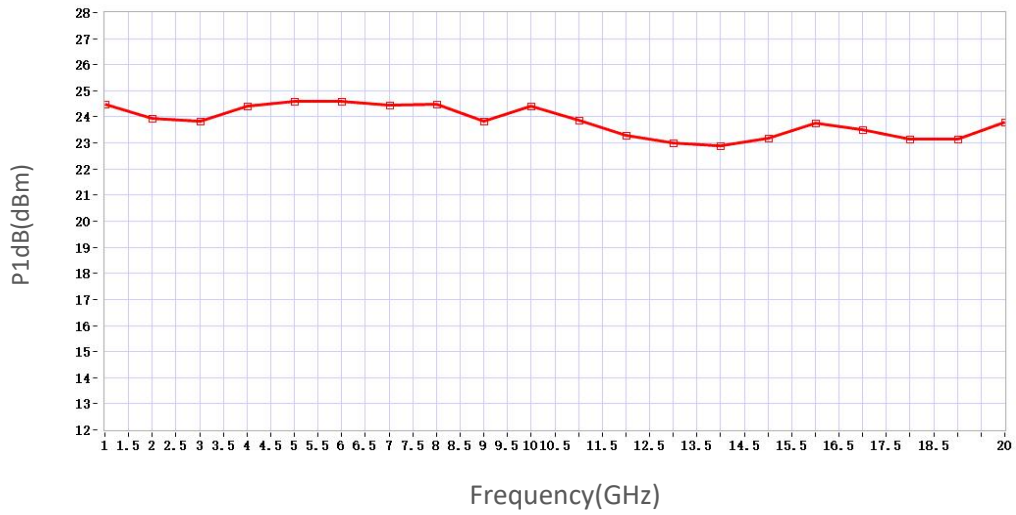


Gain vs Output Power



典型曲线 Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

