

Model:TLPA0.5G6G-35-30
Power amplifier
0.5-6GHz,Gain:35dB,P1dB:28dBm,Psat:30dBm
Feature:

- Ultra Wide Band: 0.5-6GHz
- Gain: 35dB Typ
- Psat Output Power: 30dBm Min
- Good Power and Gain Flatness
- 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	0.5-6			GHz
增益 Gain		35		dB
增益平坦度 Gain Flatness		±2.5		dB
线性输出功率P1dB	28			dB
饱和输出功率 Psat	30			dBm
输入驻波 Input VSWR		2.0	2.2	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current	279			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	100*70*12	mm
重量 Weight	/	g

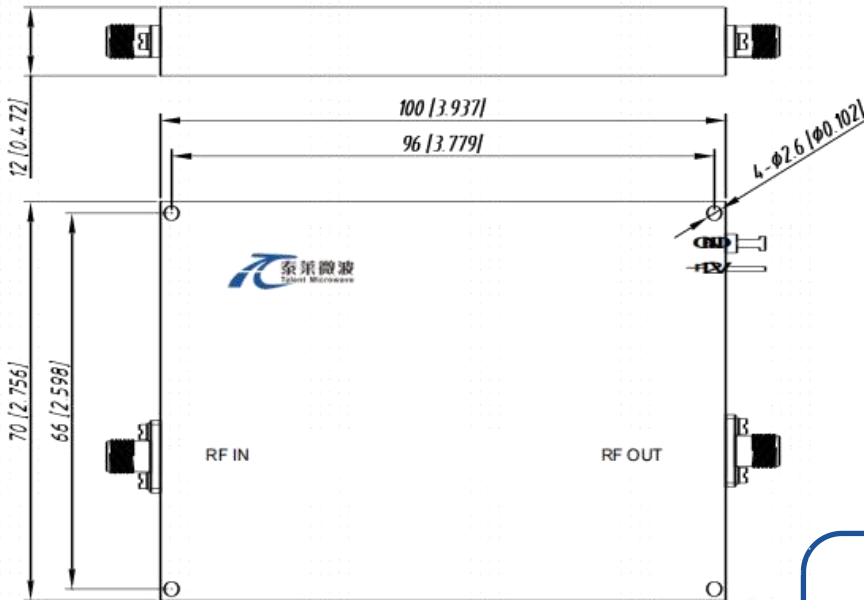

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF INPUT POWER	+0 dBm
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**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

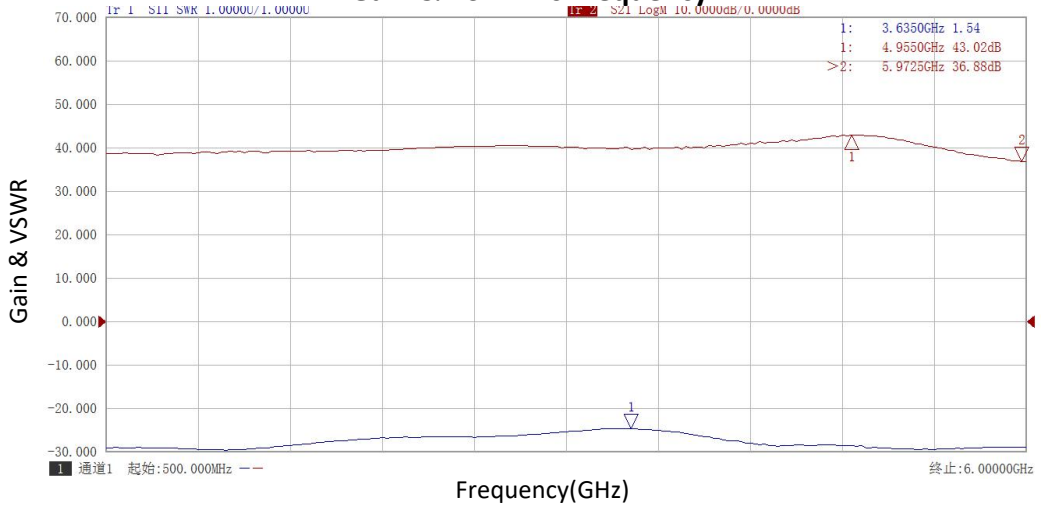
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+75	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		50,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms(15 degree 2KHz)endurance,1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

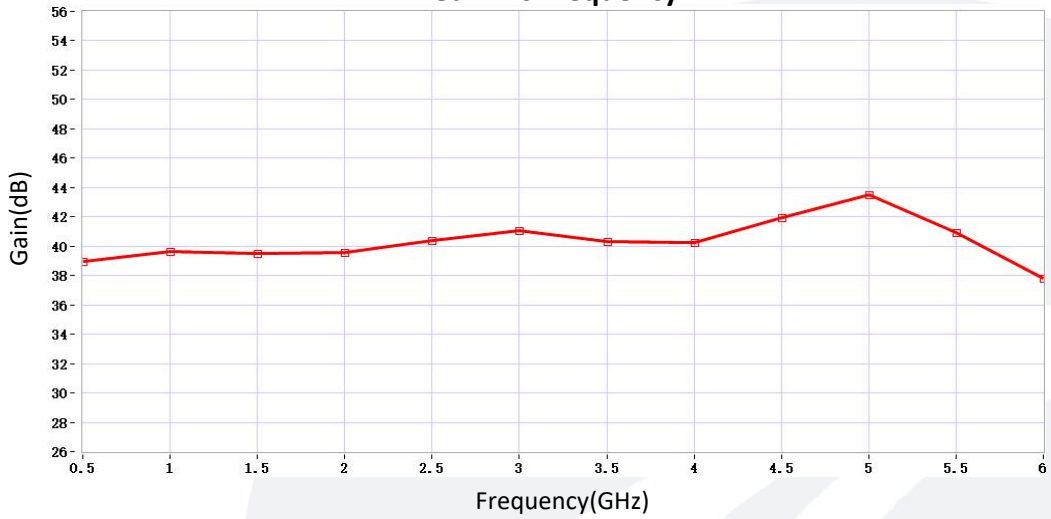
标准型号 Part Number	描述 Description	版本号Revision
TLPA0.5G6G-35-30	Power amplifier 0.5-6GHz,Gain:35dB,P1dB:28dBm,12V DC,Without Heatsink	Rev.1.0
TLPA0.5G6G-35-30-HS	Power amplifier 0.5-6GHz,Gain:35dB,P1dB:28dBm,12V DC,With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

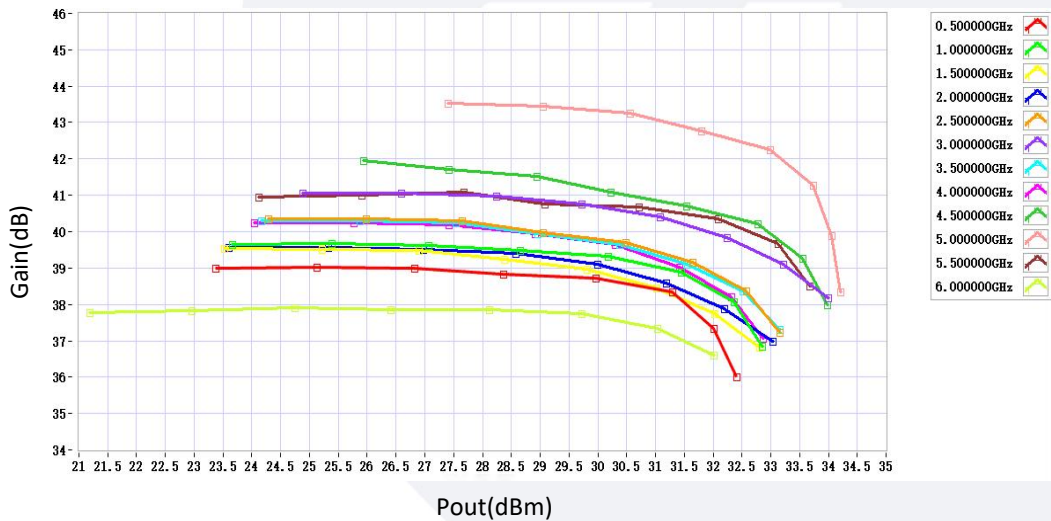
Gain & VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



典型曲线 Typical Performance Data:

P1dB vs Frequency

