

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

- Ultra Wide Band: 0.5-6GHz
- Gain:35dB Typ
- P1dB Output Power:30dBm Min
- 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		0.5-6		GHz
增益 Gain		35		dB
增益平坦度 Gain Flatness		±2.5		dB
线性输出功率 Output P1dB	28			dBm
饱和输出功率 Output Psat	30			dBm
输入驻波 Input VSWR		2	2.2	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		280		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	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	100*70*12	mm
重量 Weight	/	g

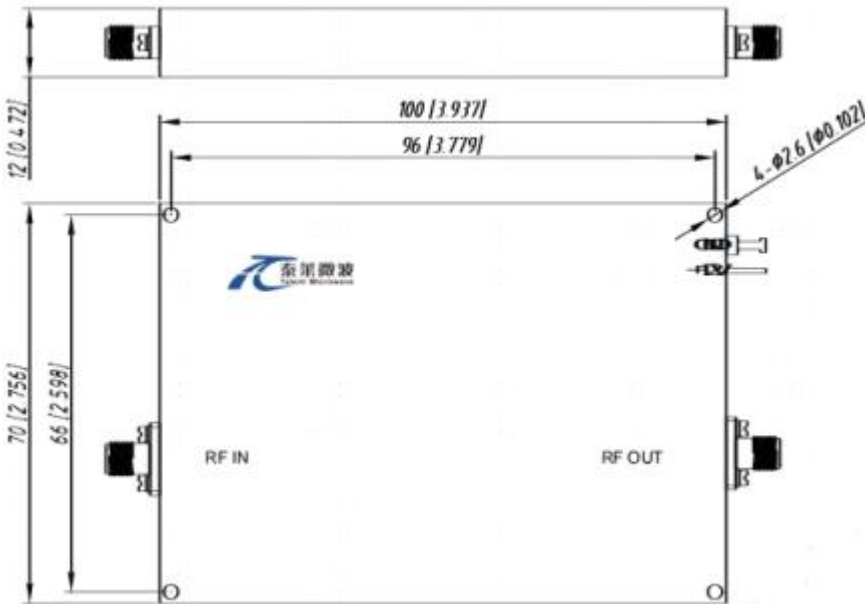
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	0dBm
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:

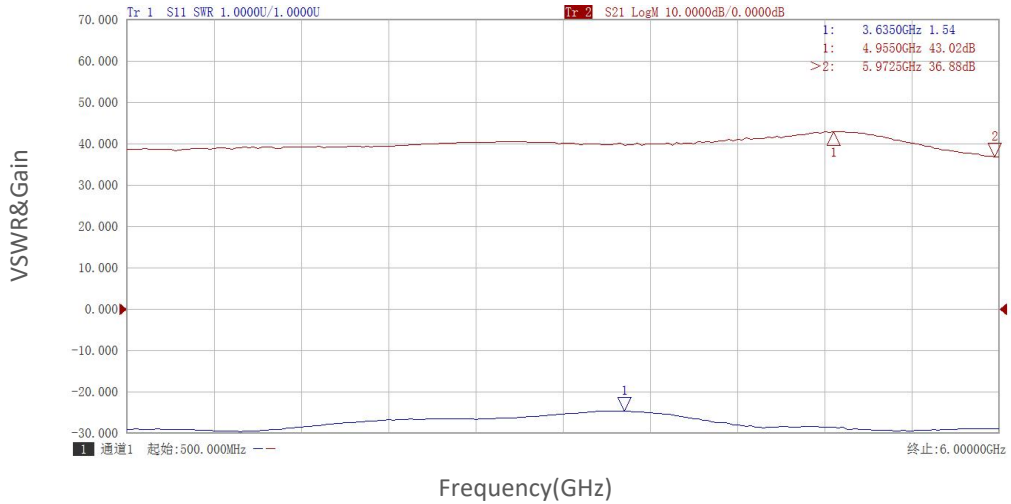
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+70	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

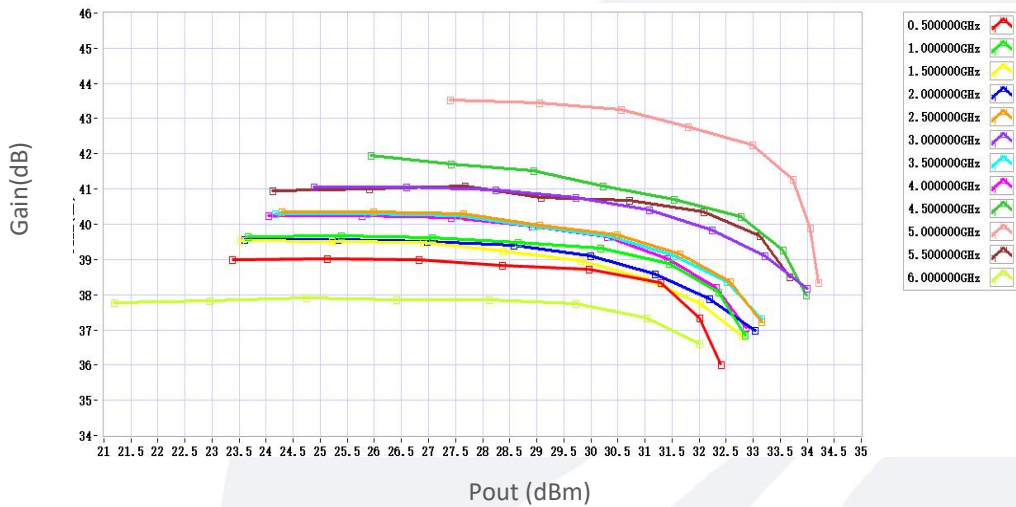
标准型号 Part Number	描述 Description	版本号Revision
TLPA0.5G6G-35-30	Power amplifier 0.5-6GHz,Gain:35dB,P1dB:28dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA0.5G6G-35-30-HS	Power amplifier 0.5-6GHz,Gain:35dB,P1dB:28dBm,+12V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

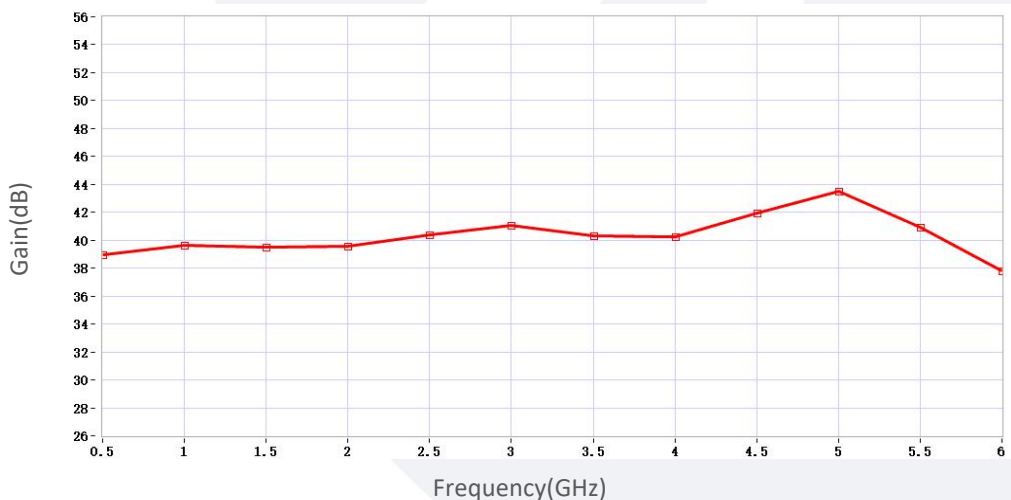
VSWR&Gain vs Frequency



Gain vs Output Power



Gain vs Frequency



典型曲线 Typical Performance Data:

P1dB vs Frequency

