

Model:TLPA300M6G-40-30
Power Amplifier
0.3-6GHz,Gain:40dB,P1dB:30dBm
Feature:

- Ultra Wide Band: 0.3-6GHz
- Gain:40dB Min
- 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	0.3-6			GHz
增益 Gain	40	42		dB
增益平坦度 Gain Flatness		±0.5	±1	dB
线性输出功率 Output P1dB	30	31		dBm
饱和输出功率 Output Psat		32		dBm
输入驻波 Input VSWR		1.8		:1
谐波 Harmonics@Pout=30dBm		-15		dBc
直流电压 DC Voltage		+12	+15	V DC
直流电流 DC Supply Current		700	1000	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*50*15	mm
重量 Weight	150	g

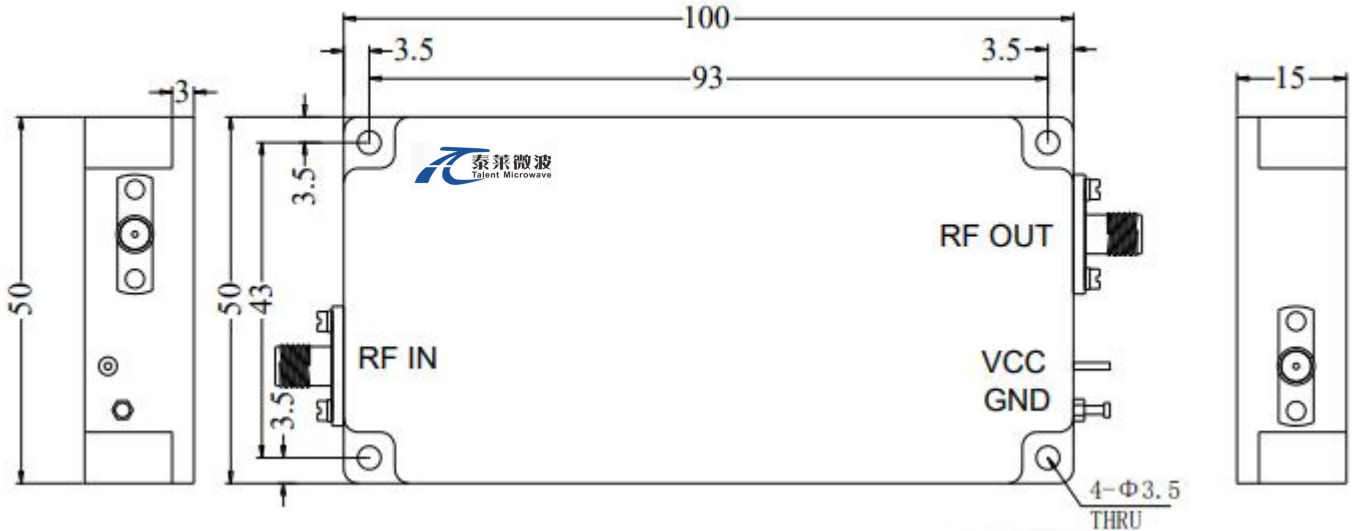
绝对最大值 Absolute Maximum Ratings:

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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

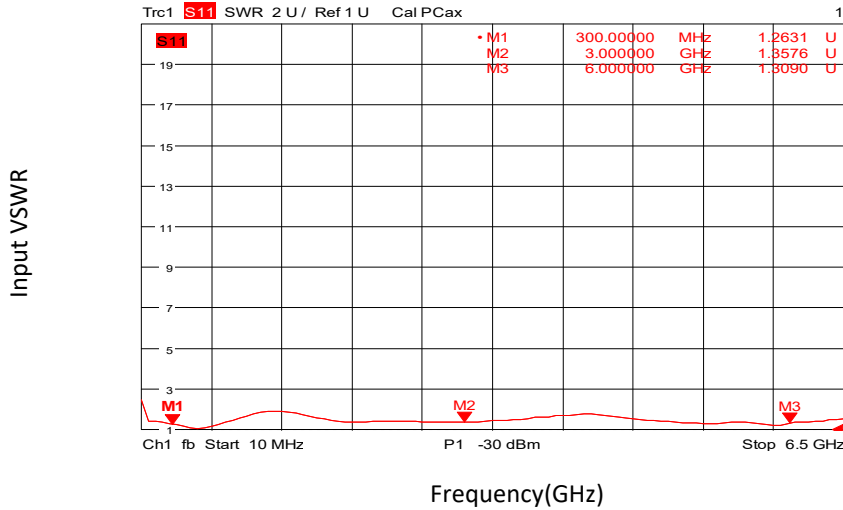
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

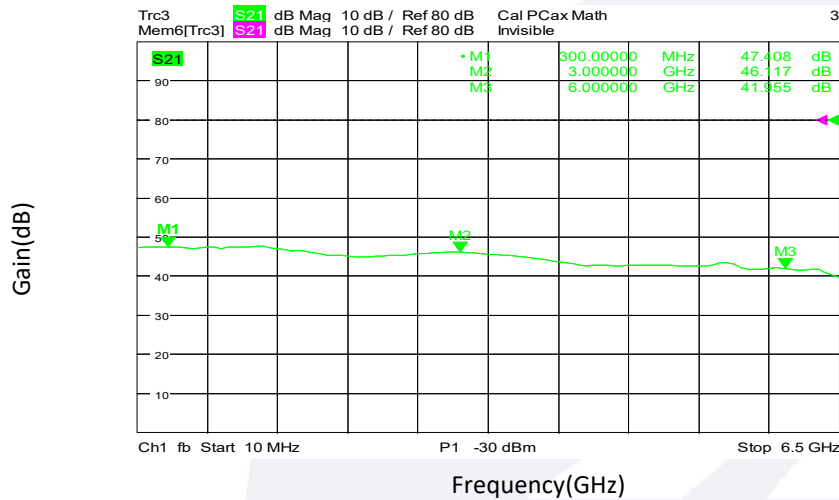
标准型号 Part Number	描述 Description	版本号Revision
TLPA300M6G-40-30	Power amplifier 0.3-6GHz,Gain:40dB,P1dB:30dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA300M6G-40-30-HS	Power amplifier 0.3-6GHz,Gain:40dB,P1dB:30dBm,+12V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

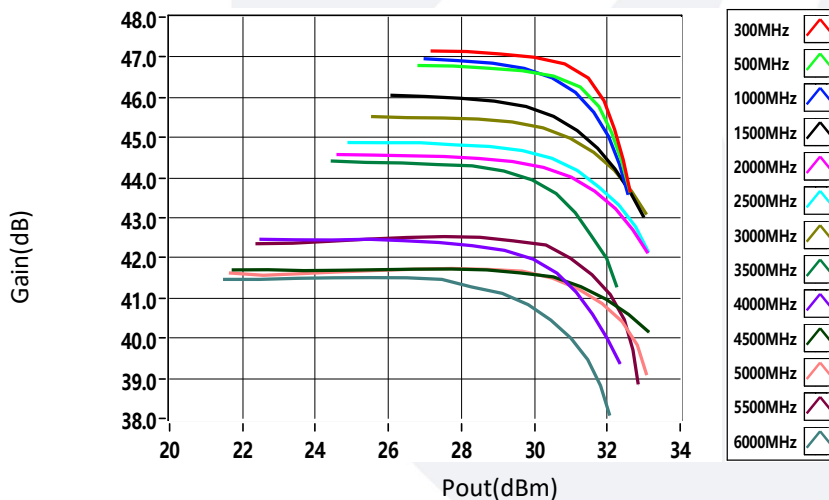
Input VSWR vs Frequency



Gain vs Frequency

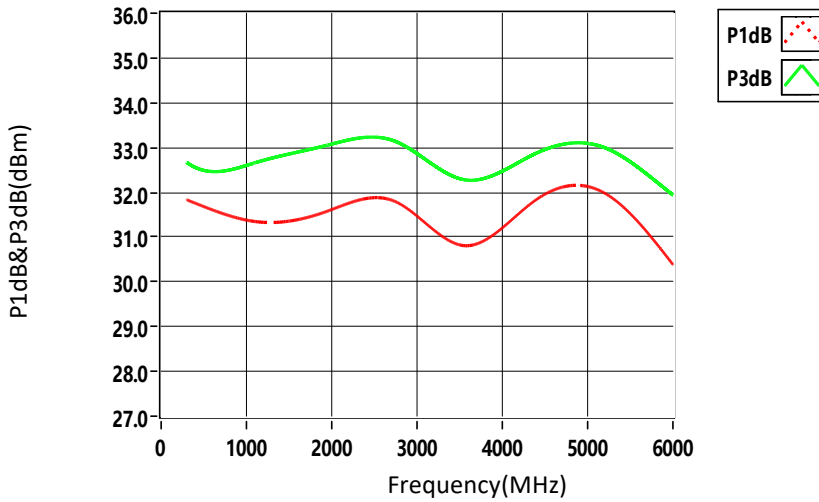


Gain vs Output Power

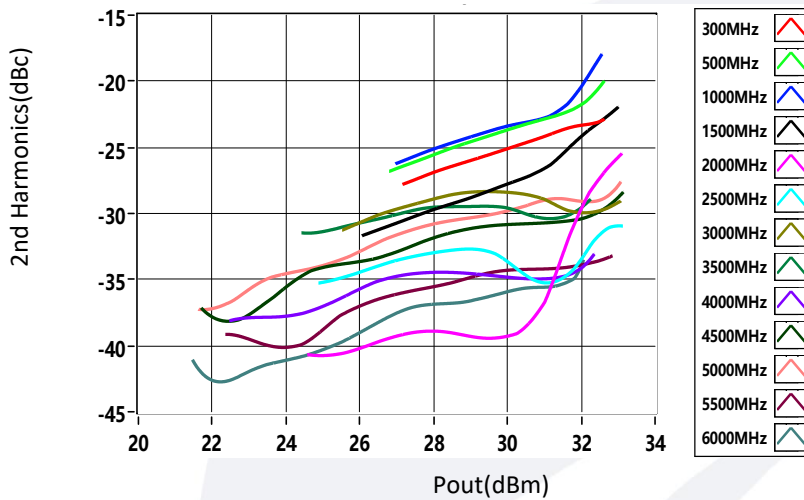


典型曲线 Typical Performance Data:

P1dB&P3dB vs Frequency



2nd Harmonics VS Output Power



3rd Harmonics VS Output Power

