

Model:TLPA300M6G-40-30
Power Amplifier
300MHz-6GHz,Gain:40dB,P1dB:30dBm
Feature:

- Ultra Wide Band: 300MHz-6GHz
- Gain: 40dB Min
- P1dB Output Power: 30 dBm 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	0.3-6			GHz
增益 Gain	40	42		dB
增益平坦度 Gain Flatness (@20MHz bandwidth)		±0.5dB	±1dB	dB
线性输出功率P1dB	30	31		dBm
饱和输出功率Psat		32		dBm
谐波抑制@Pout=30dBm		-15		dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		12	15	V DC
直流电流 DC Supply Current		0.7	1.0	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

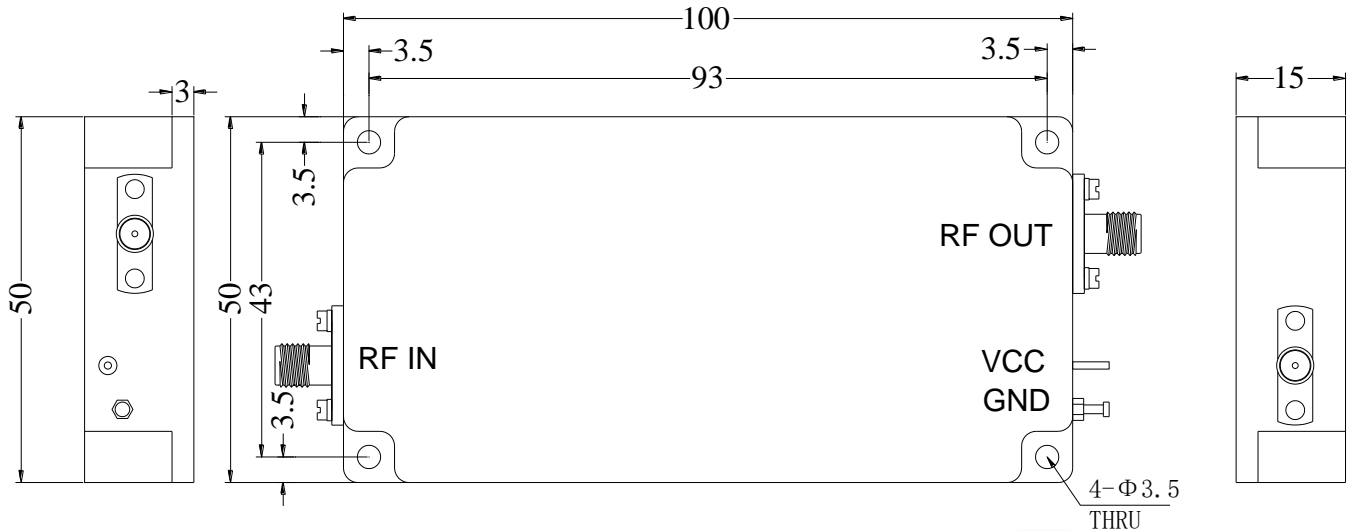
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	100X50X15	mm
重量 Weight	150	g


绝对最大值 Absolute Maximum Ratings:

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



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



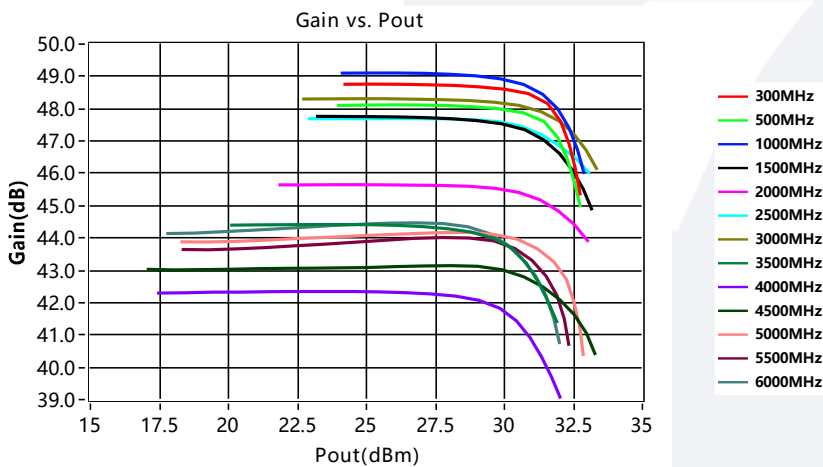
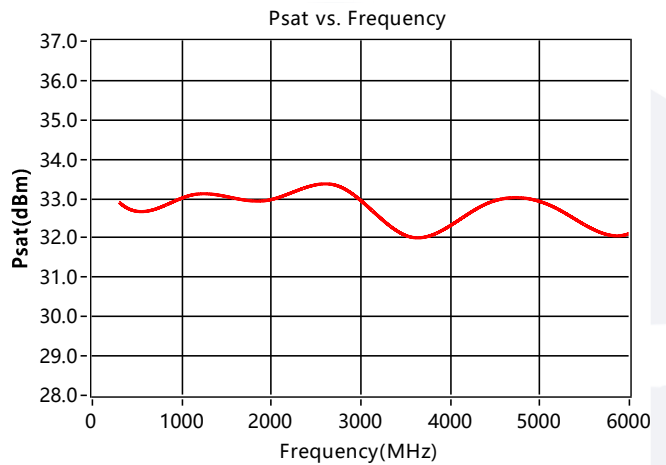
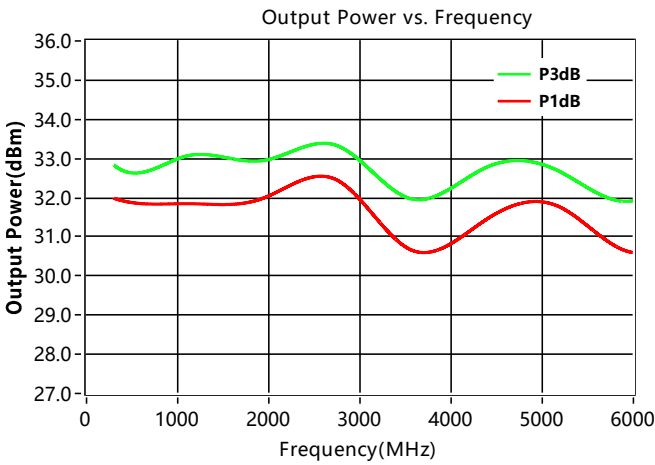
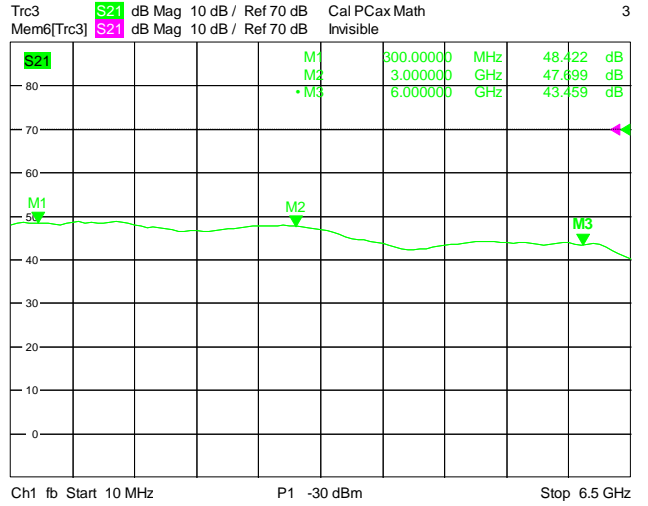
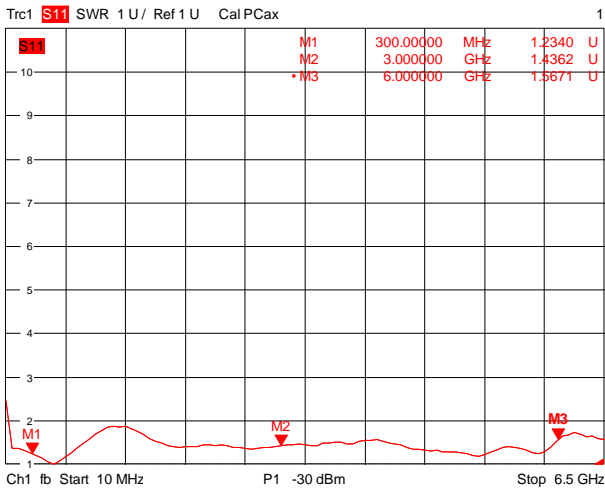
OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

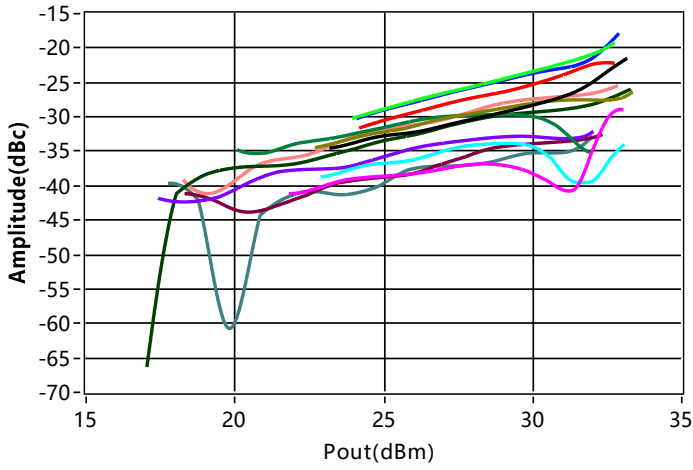
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

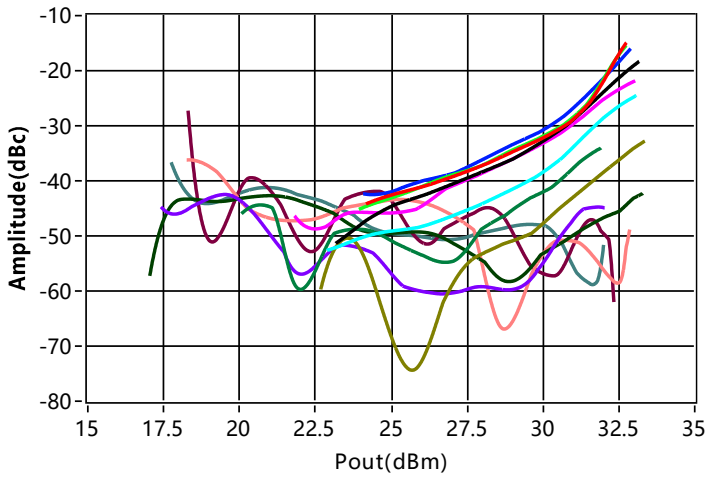
标准型号 Part Number	描述 Description	版本号Revision
TLPA300M6G-40-30	Power amplifier 300MHz-6GHz, Gain:40dB, P1dB:30dBm, 12V DC, Without Heatsink	Rev.2.0
TLPA300M6G-40-30-HS	Power amplifier 300MHz-6GHz, Gain:40dB, P1dB:30dBm, 12V DC, With Heatsink	Rev.2.0



2nd Harmonic Wave vs. Pout



3rd Harmonic Wave vs. Pout



4th Harmonic Wave vs. Pout

