

Model:TLPA6G18G-60-53
Power Amplifier
6-18GHz,Gain:60dB,Psat:53dBm
Feature:

- Ultra Wide Band: 6-18GHz
- Gain:60dB Min
- Psat Output Power:53dBm Min
- Protection:Over TEM,over voltage, over current protection
- 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	6-18			GHz
增益 Gain	60			dB
增益平坦度 Gain Flatness		±3.5	±5	dB
饱和输出功率 Output Psat	53			dBm
杂散 Harmonics@Pout=50dBm			-55	dBc
谐波 Harmonics@Pout=50dBm		-20	-15	dBc
直流电压 DC Voltage		+28		V DC
功耗 Power Consumption			3500	W
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/WRD500	
DC 加电接口 DC Power Interface	Y50DX-1804	
尺寸 Size	270*276*207.25	mm
重量 Weight	25	Kg

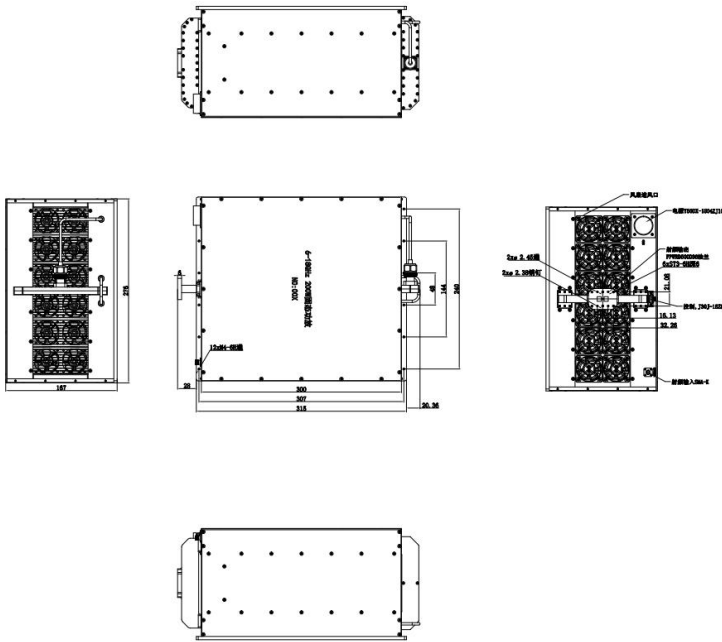
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

外形尺寸 Outline Drawing:

Unit: mm



Y50DX-1904 Define	
引脚 Pin	功能 Function
Pin1-2	+28V
Pin3-4	GND



温度环境 Environmental Conditions:

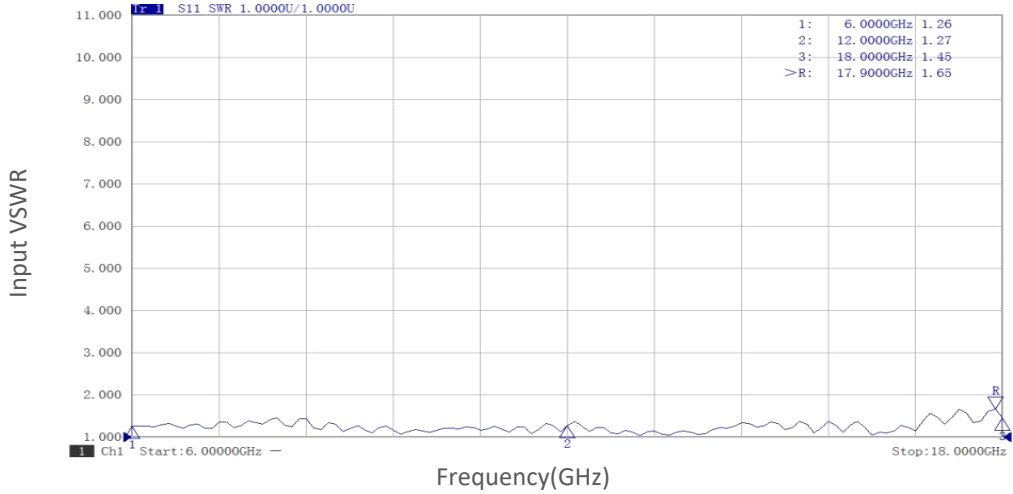
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+40	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

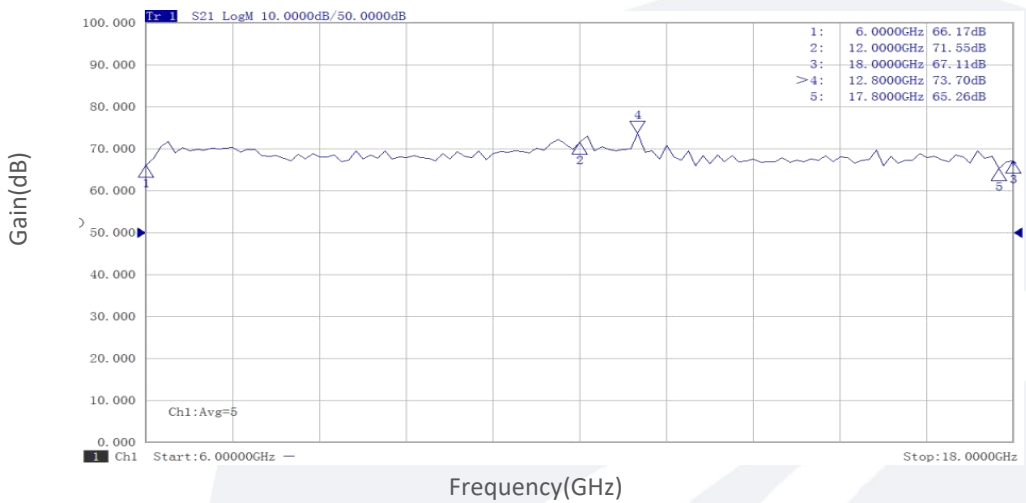
标准型号 Part Number	描述 Description	版本号 Revision
TLPA6G18G-60-53	Power amplifier 6-18GHz, Gain:60dB, Psat:53dBm, +28V DC, Built in Fan Cooling .	Rev.1.1

典型曲线 Typical Performance Data:

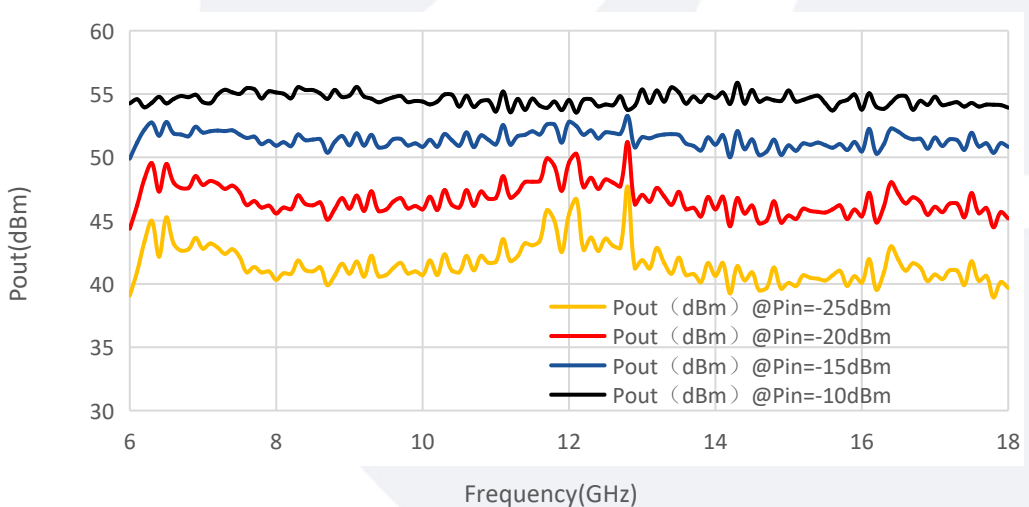
Input VSWR vs Frequency



Gain vs Frequency

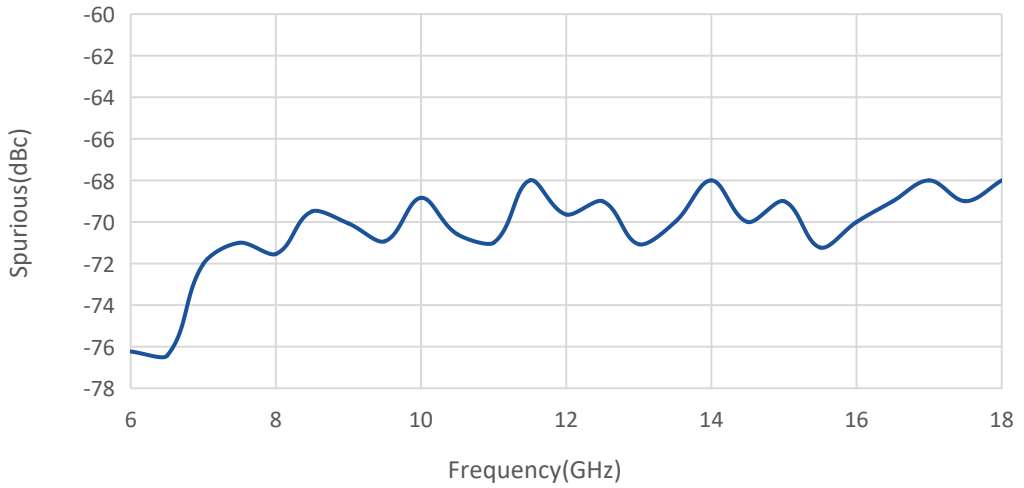


Pout vs Frequency



典型曲线 Typical Performance Data:

Spurious vs Frequency



Harmonic vs Frequency

