

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

- Ultra Wide Band: 6-18GHz
- Gain: 60dB
- Psat Output Power: 53dBm
- 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	6-18			GHz
功率增益 Power Gain	60			dB
增益平坦度 Gain Flatness			±3.5	dB
饱和输出功率 Output Psat	53			dBm
输入功率Input Power		0	10	dBm
杂散 Spurious@Pout=47dBm	55			dBc
谐波Harmonics@Pout=47dBm	13			dBc
底噪 Low Noise			-70	dBm/Hz
直流电压 DC Voltage		+28V		V DC
功耗 Power Consumption			3500	W
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/WRD500	
DC加电接口 DC Power Interface	Y50DX-1804	
尺寸 Size	270*276*207.25	mm
重量 Weight	25	Kg

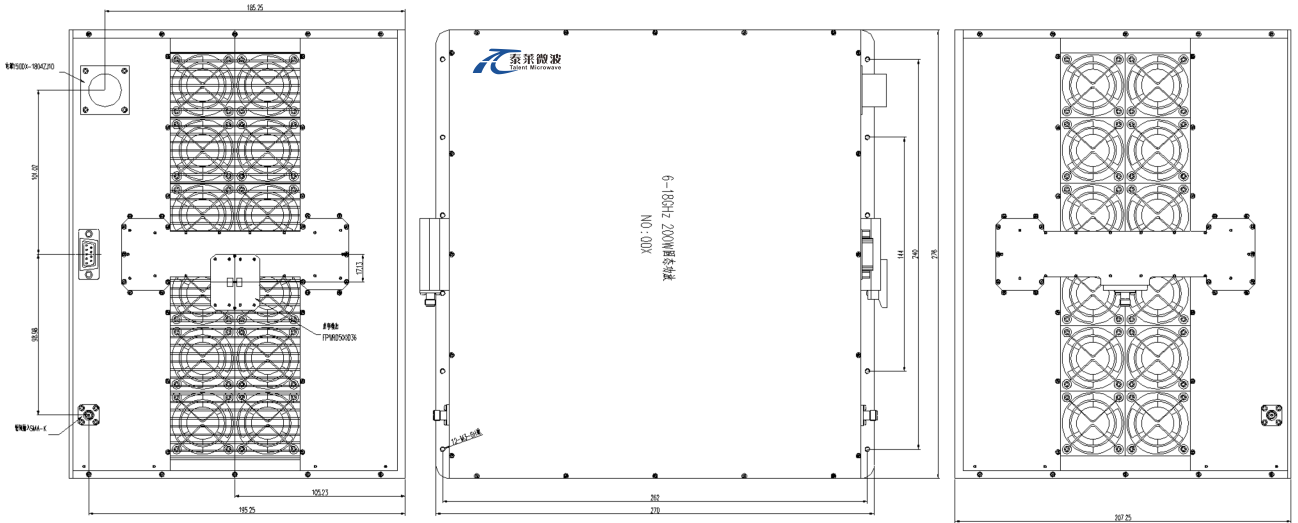
绝对最大值 Absolute Maximum Ratings:

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


 Available 220V System
 Benchtop Amplifier

外形尺寸Outline Drawing:

Unit: mm(Inches)



**Y50DX-1804
Define**

引脚 Pin #	功能Function
1-2	+28V
3-4	GND



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

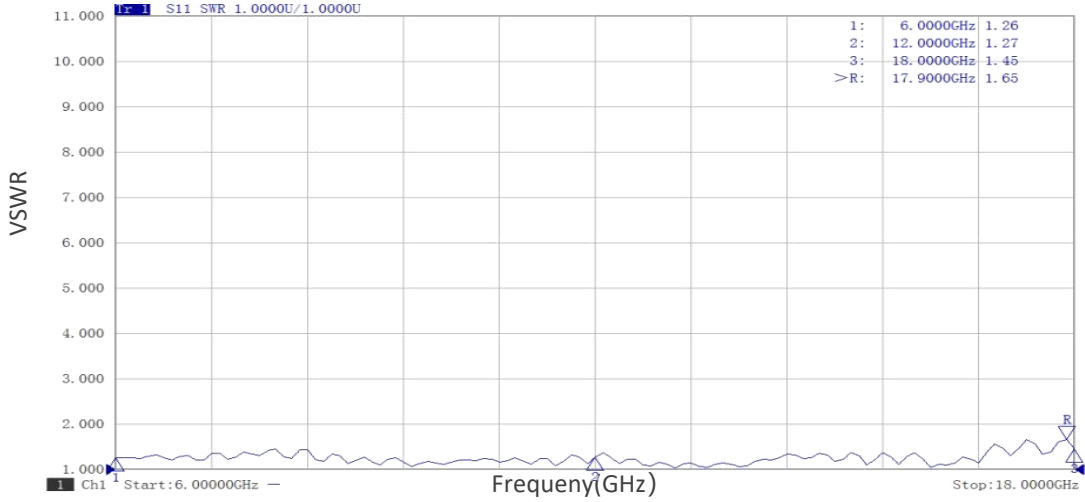
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-20		+40	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc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

订货信息 Ordering Information:

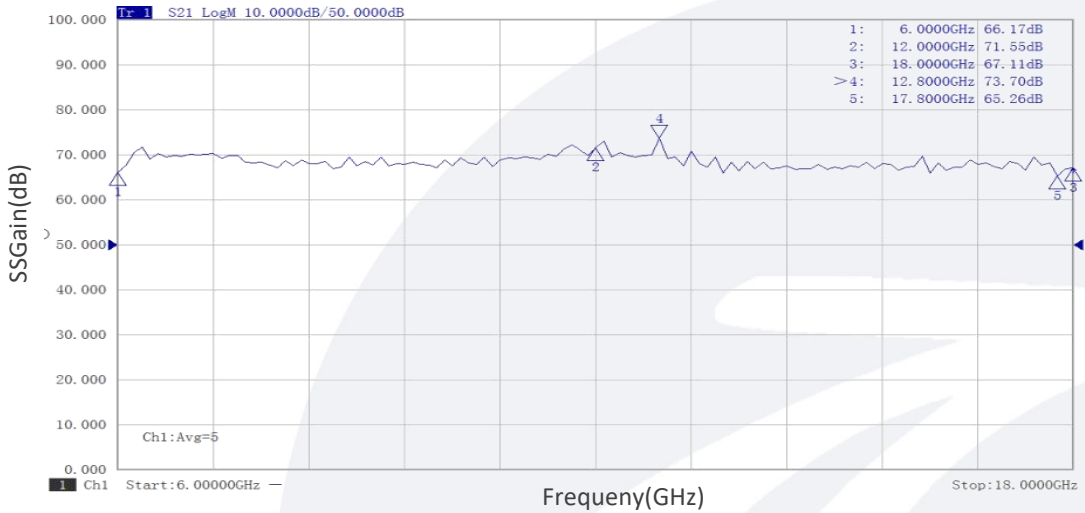
标准型号 Part Number	描述 Description	版本号Revision
TLPA6G18G-60-53	Solid State High Power Amplifier,6-18GHz,Gain:60dB,Psat:53dBm,28V DC	Rev.1.1

典型曲线 Typical Performance Data:

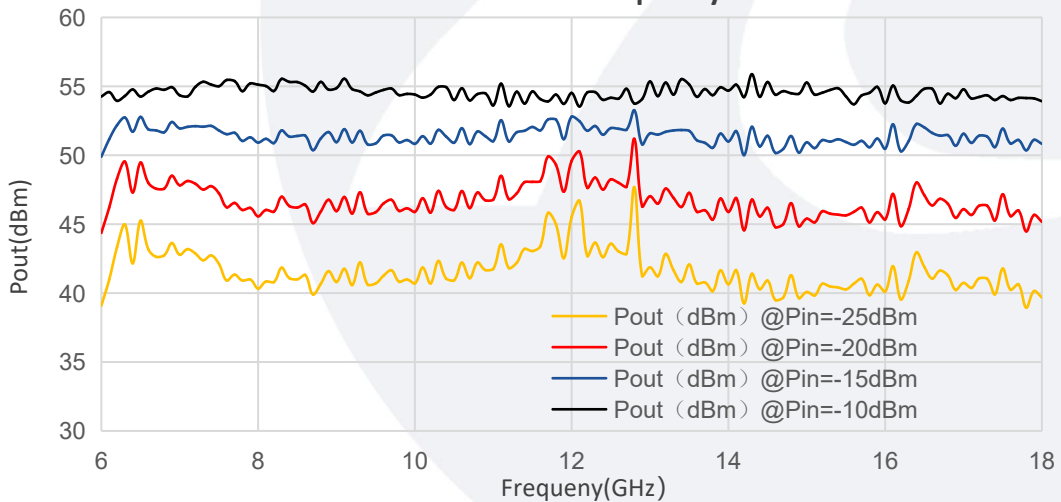
VSWR vs Frequency



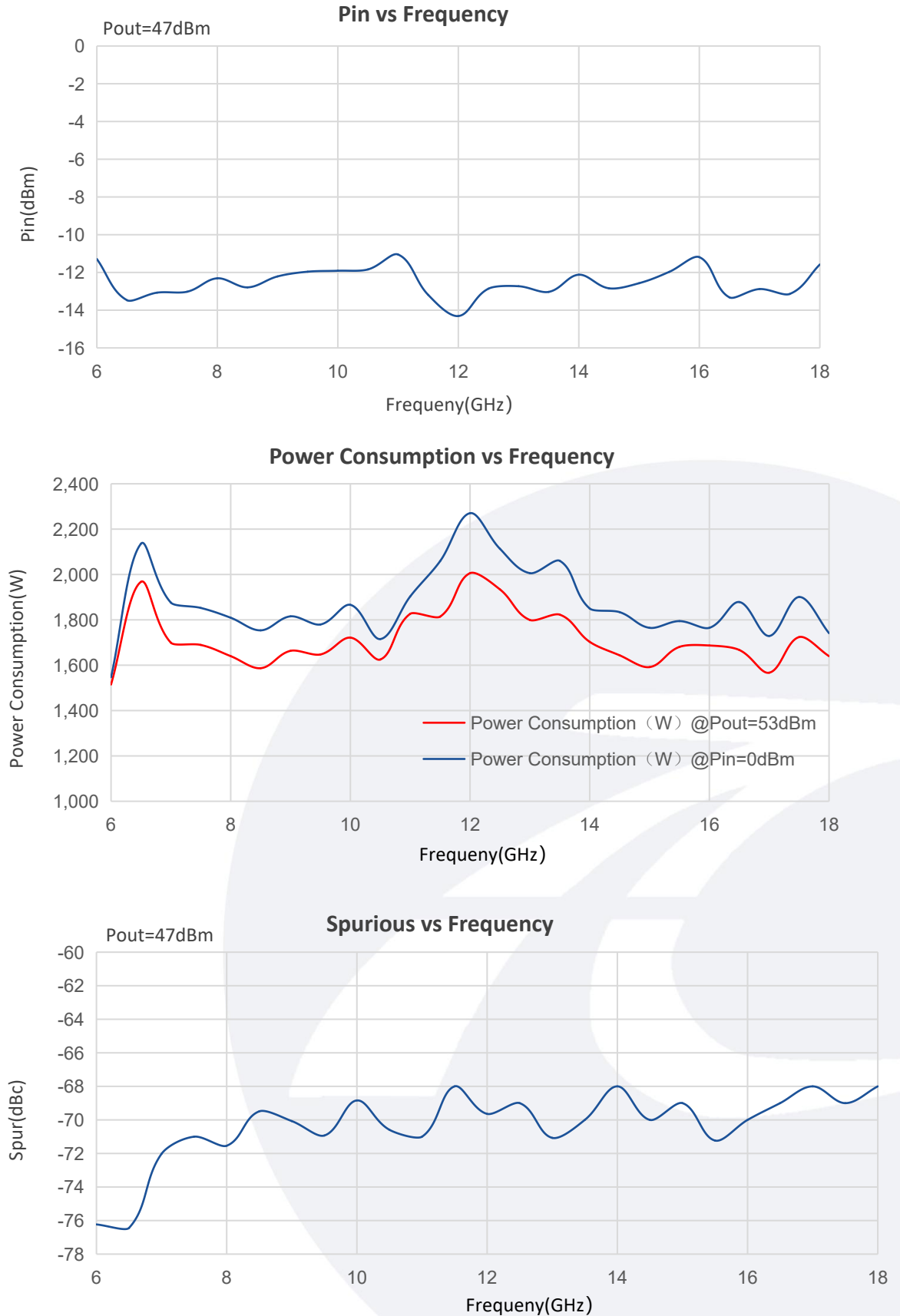
Small Signal Gain vs Frequency



Pout vs Frequency



典型曲线 Typical Performance Data:



典型曲线 Typical Performance Data:

