

## Model:TLPA2G6G-50-50

## Power Amplifier 2-6GHz,Gain:50dB,Psat:50dBm

### Feature:

- Ultra Wide Band: 2-6GHz
- Gain:50dB Min
- Psat Output Power:50dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR 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	2-6			GHz
增益 Gain	50			dB
增益平坦度 Gain Flatness		±3		dB
饱和输出功率 Output Psat	50			dBm
杂散 Harmonics@Pout=50dBm			-60	dBc
谐波 Harmonics@Pout=50dBm		-10		dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+38		V DC
功耗 Power Consumption			800	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/N Female	
DC 加电接口 DC Power Interface	Y50DX-1404	
通信接口 Communication Interface	J30J-0ZKP	
尺寸 Size	300*264*120	mm
重量 Weight	4	Kg

### 绝对最大值 Absolute Maximum Ratings:

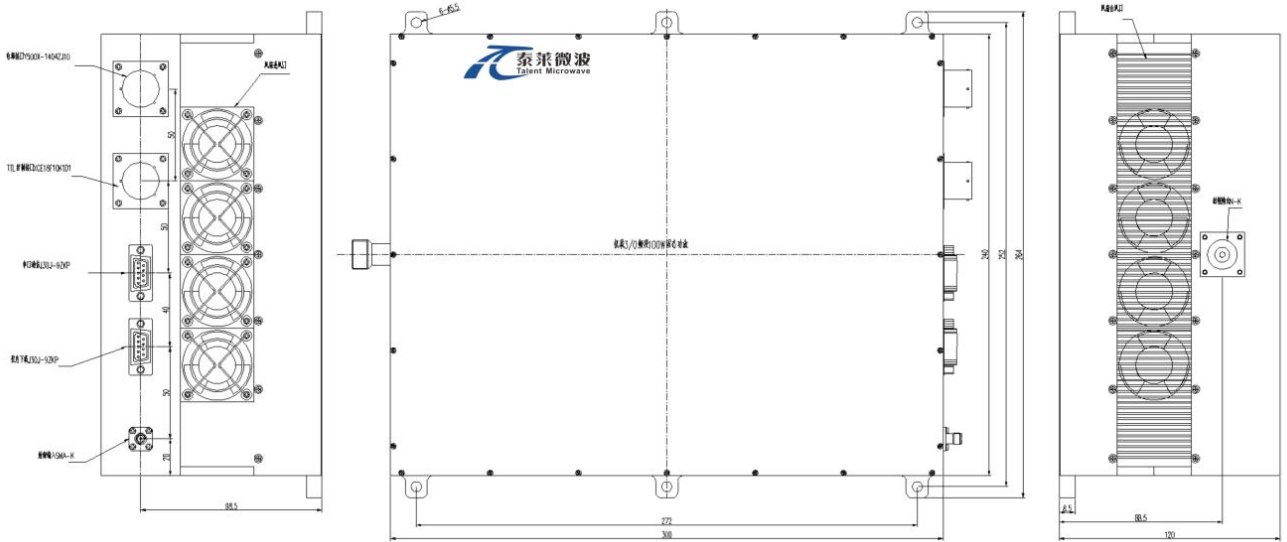
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28V
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System  
Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

温度环境 Environmental Conditions:

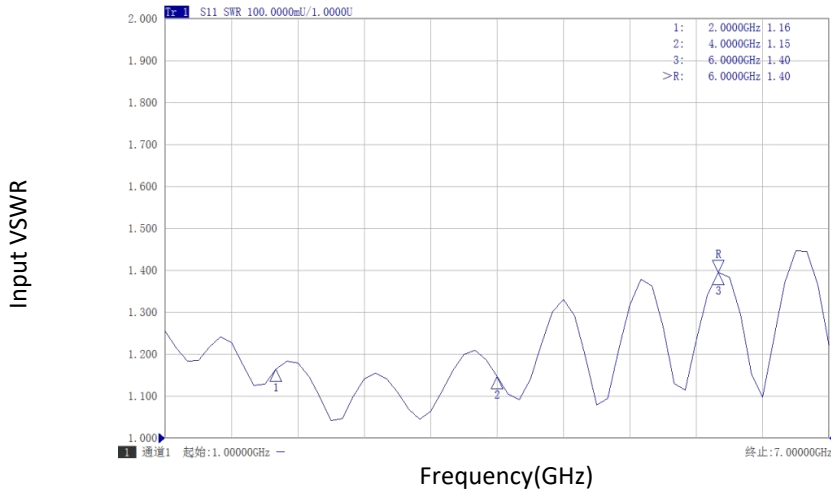
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

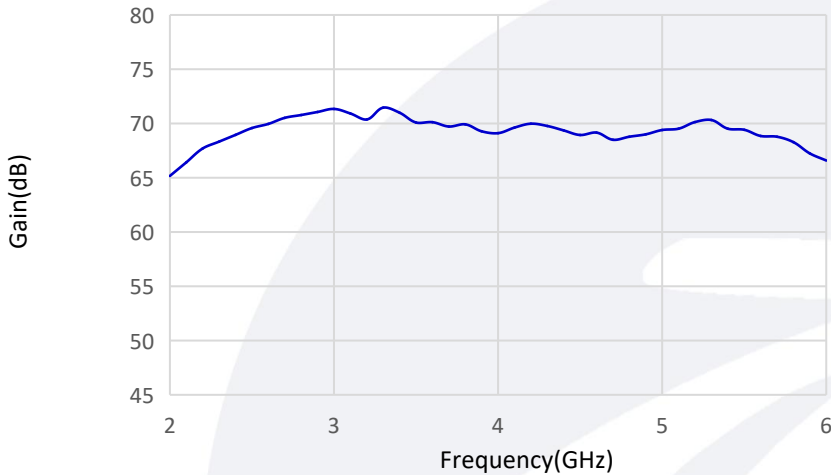
标准型号 Part Number	描述 Description	版本号Revision
TLPA2G6G-50-50	Power amplifier 2-6GHz,Gain:50dB,Psat:50dBm,+28V DC,Built in Fan Cooling .	Rev.1.1

典型曲线 Typical Performance Data:

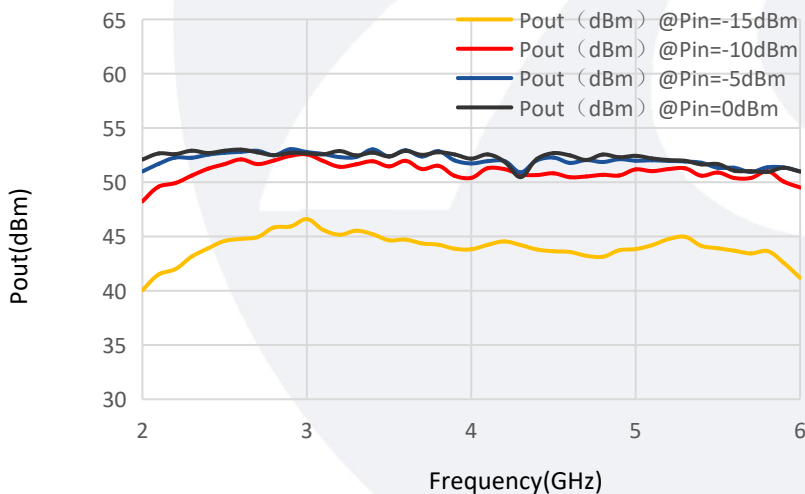
**Input VSWR vs Frequency**



**Gain vs Frequency**

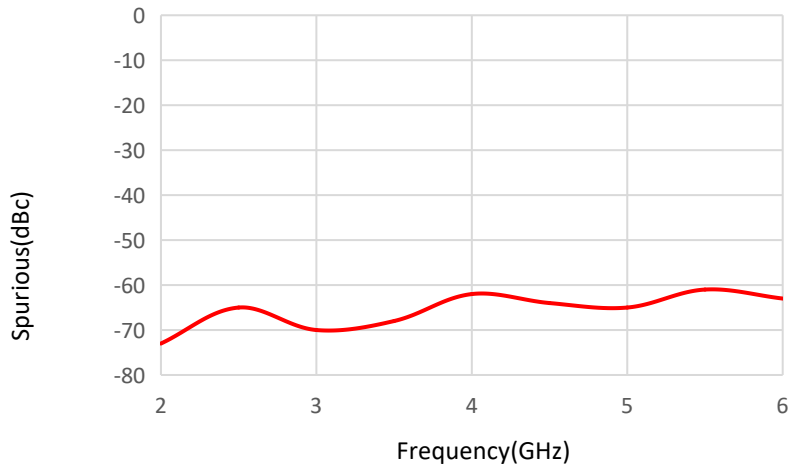


**Pout vs Frequency**



典型曲线 Typical Performance Data:

### Spurious vs Frequency



### Harmonic vs Frequency

