

Model:TLPA6G18G-50-51
Power Amplifier
6-18GHz,Gain:50dB,Psat:51dBm
Feature:

- Ultra Wide Band: 6-18GHz
- Gain: 50 dB Min
- Psat Output Power: 51 dBm Typ
- 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 | 6-18 | | | GHz |
| 增益 Gain | 50 | | | dB |
| 增益平坦度 Gain Flatness | | ±3.5 | ±5 | dB |
| 饱和输出功率 Output Psat | 50.5 | 51 | | dBm |
| 杂散 Spurious@Pout=47dBm | | | -60 | dBc |
| 谐波 Harmonics@Pout=47dBm | | | -10 | dBc |
| 输入驻波 Input VSWR | | | 2.0 | :1 |
| 直流电压 DC Voltage | +28 | | | V DC |
| 功耗 Power Consumption | 1500@Max | | | W |
| 阻抗 Impedance | 50 | | | Ohms |

机械特性 Mechanical Specifications:

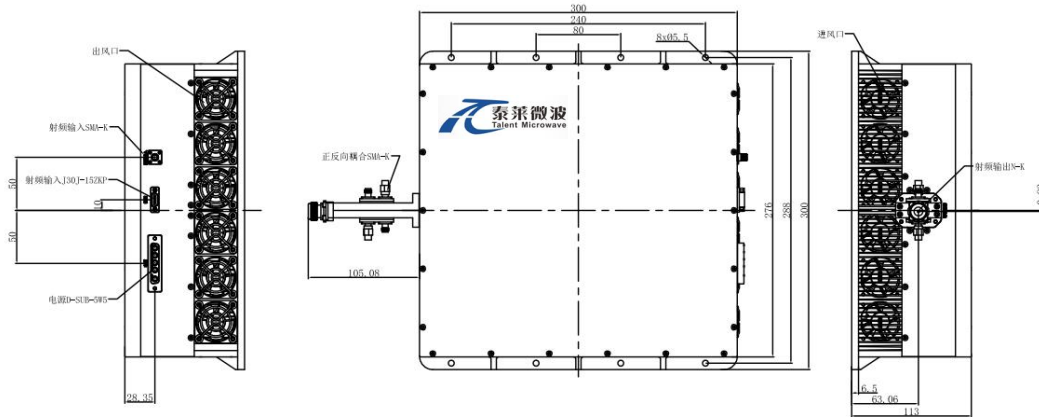
| 参数Parameter | 指标 Value | 单位Units |
|----------------------------------|-----------------------|---------|
| 输入输出接口 Input /Output Connector | SMA Female/WRD500 | |
| 直流偏置 DC Bias | D-SUB-5W5 | |
| 正向/反向耦合 Forward/Reverse Coupling | SMA Female/SMA Female | |
| 尺寸 Size | 300*300*113 | mm |
| 重量 Weight | 11 | 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 |

外形尺寸Outline Drawing:

Unit: mm



控制接口连接器 J30J-15ZKP



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

| J30J-15ZKP Define | |
|-------------------|----------------------------------|
| 引脚 Pin | 功能 Function |
| Pin1 | Voltage Monitor |
| Pin2 | Current Monitor |
| Pin3 | Temperature Monitor |
| Pin4 | 0.5dB Attenuation |
| Pin5 | 1dB Attenuation |
| Pin6 | 2dB Attenuation |
| Pin7 | 4dB Attenuation |
| Pin8 | 8dB Attenuation |
| Pin9 | 16dB Attenuation |
| Pin10 | TTL(high for open,low for close) |
| Pin11-15 | GND |

直流供电连接器 D-SUB-5W5

| D-SUB5W5 Define | |
|-----------------|-------------|
| 引脚 Pin | 功能 Function |
| A1 | +28V |
| A2 | +28V |
| A3-A5 | GND |

温度环境 Environmental Conditions:

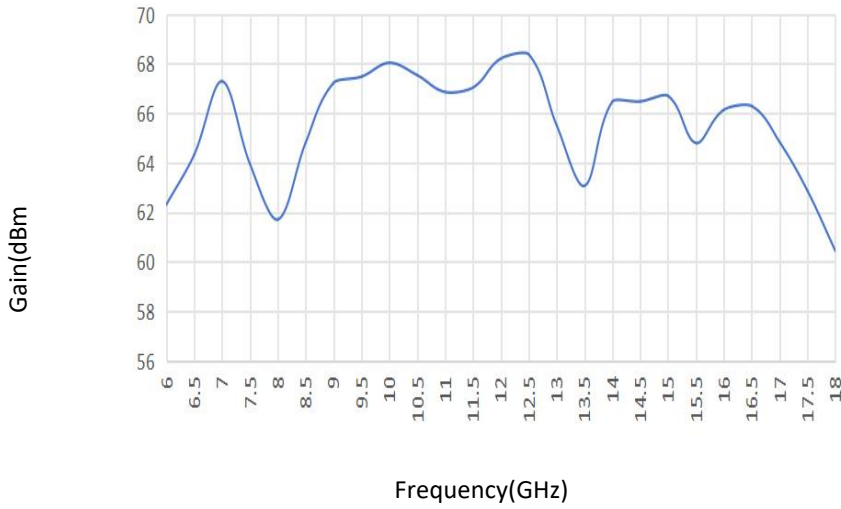
| 参数Parameter | Min | Typ | Max | 单位Units |
|------------------------------------|--|-----|------|---------|
| 操作温度 Operating Temperature | -20 | | +40 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 30,000 | | | feet |
| 震动 Shock / Vibration(MIL-STD-810F) | 20g,11ms,saw-tooth | | | |
| 冲击 Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

订货信息 Ordering Information:

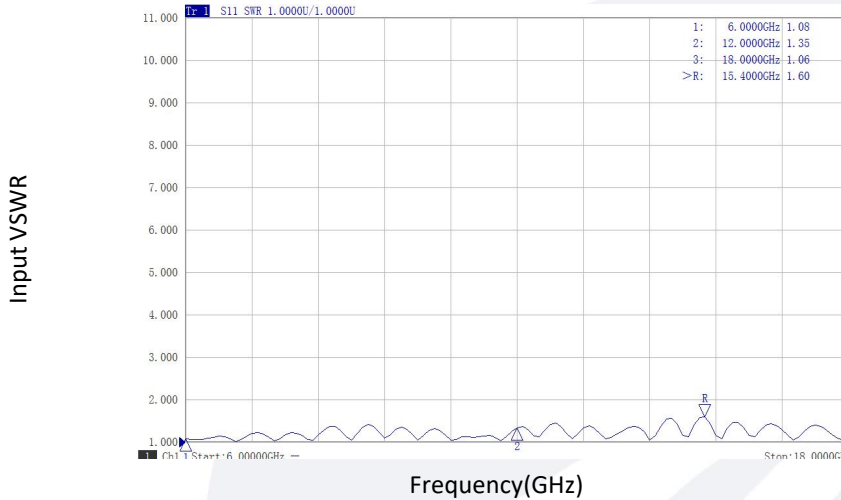
| 标准型号 Part Number | 描述 Description | 版本号Revision |
|------------------|---|-------------|
| TLPA6G18G-50-51 | Power amplifier 6-18GHz,Gain:50dB,Psat:51dBm, +28V DC,Built in Fan Cooling | Rev.1.1 |

典型曲线 Typical Performance Data:

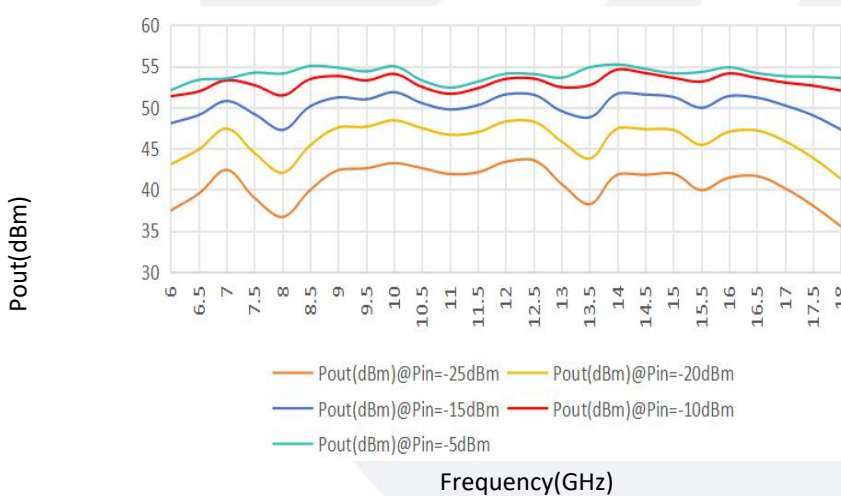
Gain vs Frequency



Input VSWR VS Frequency

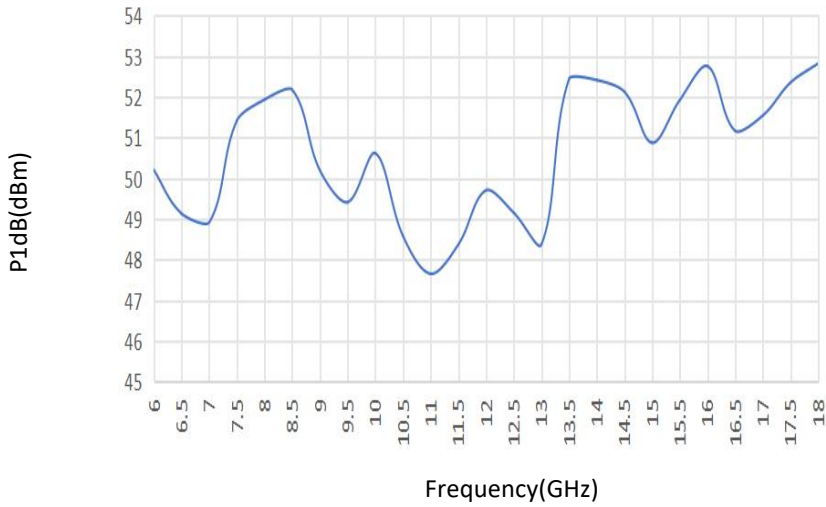


Pout@Equal_Pin

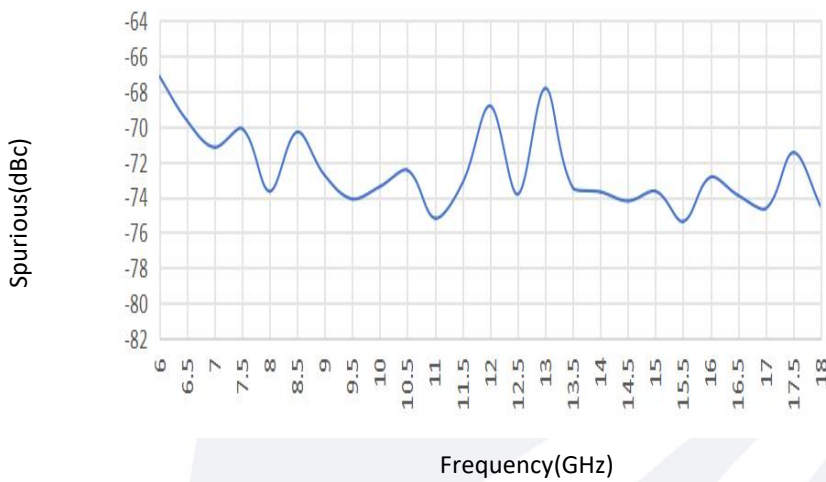


典型曲线 Typical Performance Data:

P1dB VS Frequency



Spurious@Pout=50dBm



Harmonic@Pout=50dBm

