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# Power Amplifier

## 6-18GHz/55dB Gain/55dBm Psat

## TLPA6G18G-55-55

TURPA6G18G-5555 is a power amplifier with a minimum power gain of 55 dB and a minimum Psat of 55 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +28 VDC. The input configuration offers coax adapter structure with SMA female and output port is WRD500.

### Features:

- Frequency range: 6-18GHz
- Gain: 55dB Min
- Output Power Psat: 55dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### 电气特性 Electrical Characteristics:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 频率范围 Frequency range | | 6-18 | | GHz |
| 功率增益 Power Gain | 55 | | | dB |
| 增益平坦度 Gain Flatness | | ±5 | | dB |
| 饱和输出功率 Output Psat | 55 | | | dBm |
| 杂散 Spurious@Pout=55dBm | | | -55 | dBc |
| 谐波 Harmonic@Pout=55dBm | | | -15 | dBc |
| 直流电压 DC Voltage | | 28 | | V DC |
| 功耗 Power consumption | | | 4000 | W |
| 阻抗 Impedance | | 50 | | Ohms |

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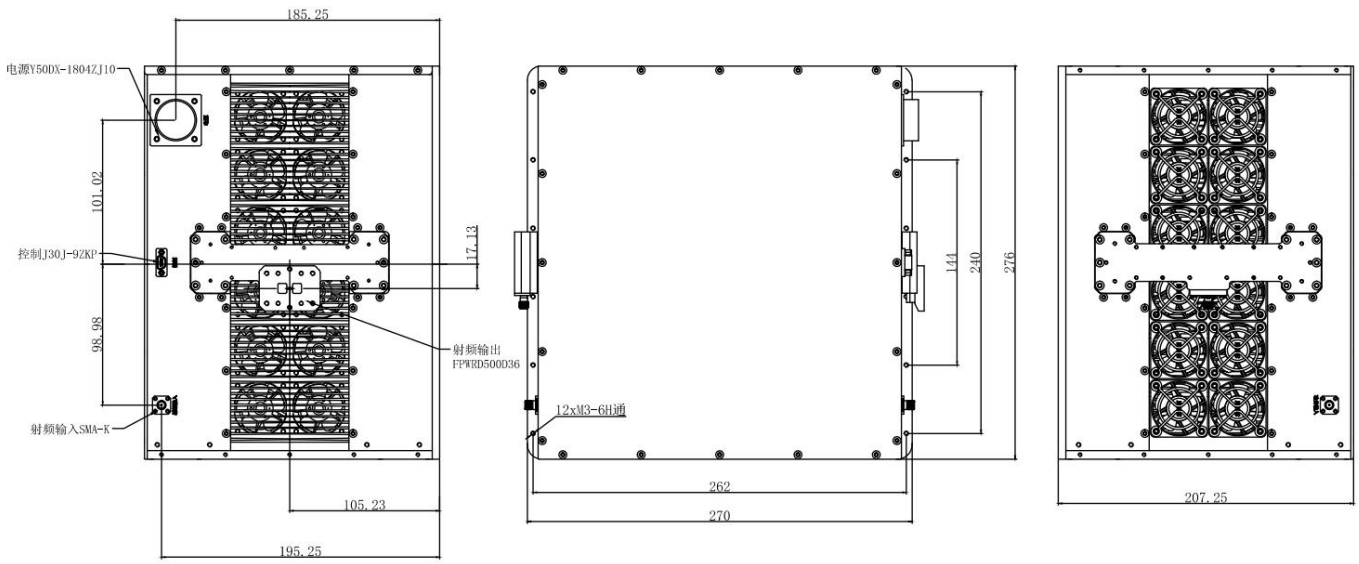
## 机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 输入/输出接口 Input /Output Connector | SMA Female/WRD500 | |
| 供电接口 Power Supply Connector | Y50DX-1804 | Pin1~2 : +28V<br>Pin3~4: GND |
| 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 | +5 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

## 外形图 Outline Drawing: Unit:mm




ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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## 温度环境 Environmental Conditions:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 操作温度 Operating Temperature* | -20 | | +50 | ℃ |
| 存储温度 Non-operating Temperature* | -30 | | +60 | ℃ |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 10,000 | | | 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 | | | |

*Note: For a wider temperature range, please consult the manufacturer.

## 订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description | 版本号 Revision |
|---|---|---|
| TURPA6G18G-5555 | Power amplifier 6-18GHz,<br>Gain:55dB,Psat:55dBm,+28V DC,Without Heatsink | Rev.1.0 |