

TURPA13.75G14.5G-5555

13.75-14.5GHz,Gain:55dB,Psat:55dBm

Feature:

- Ultra Wide Band: 13.75-14.5 GHz
- Gain: 55 dB Min
- Psat Output Power: 55 dBm Min
- 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                             | 13.75-14.5 |          |      | GHz      |
| 功率增益 Power Gain                                  | 55         |          |      | dB       |
| 增益平坦度 Gain Flatness                              |            | ±3.5     |      | dB       |
| 线性增益调节范围/步进<br>Linear Gain Adjustment Range/Step |            | 31.5/0.5 |      | dB       |
| 饱和输出功率 Output Psat                               | 55         |          |      | dBm      |
| 杂散 Spurious@Pout=55dBm                           |            |          | -60  | dBc      |
| 二次谐波 2nd Harmonics@Pout=55dBm                    |            |          | -20  | dBc      |
| 输入驻波 Input VSWR                                  |            |          | 2.0  | :1       |
| 直流电压 DC Voltage                                  |            | 28       |      | V DC     |
| 功耗 Power Consumption                             |            |          | 2500 | W        |
| 阻抗 Impedance                                     | 50         |          |      | Ohms     |

机械特性 Mechanical Specifications:

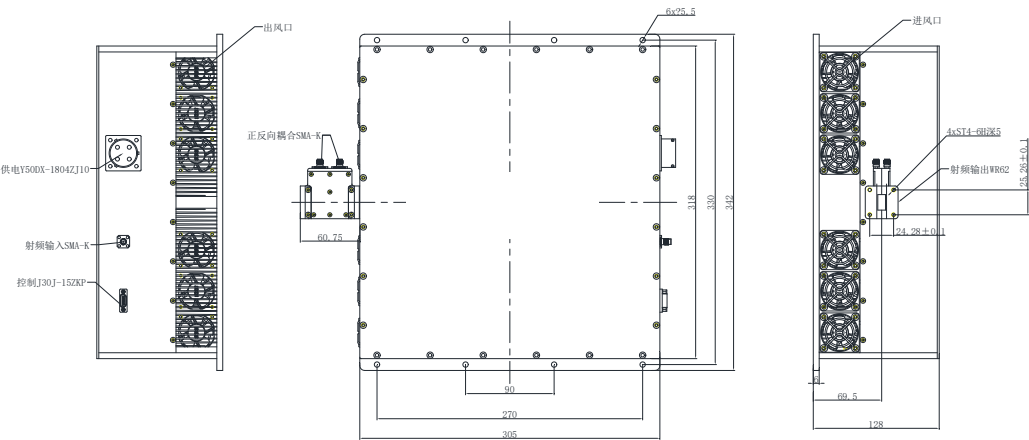
| 参数 Parameter                     | 指标 Value               | 单位 Units                    |
|----------------------------------|------------------------|-----------------------------|
| 输入/输出接口 Input /Output Connector  | SMA Female/WR62        |                             |
| 正向/反向耦合 Forward/Reverse Coupling | SMA Female/ SMA Female | 40±0.5dB                    |
| 直流供电 DC Supply                   | Y50DX-1804             | PIN1~2: +28V<br>PIN3~4: GND |
| 尺寸 Size                          | 305*342*128            | mm                          |
| 重量 Weight                        | ≤25                    | g                           |

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



外形尺寸Outline Drawing:

Unit: mm



\*\*\*Heat Sink Required During Operation

| J30J-15ZKP引脚定义 |                                  |
|----------------|----------------------------------|
| 引脚 Pin         | 功能 Function                      |
| 1-6            | 0.5/1/2/4/8/16 Decay control bit |
| 7              | Power On/Off                     |
| 8              | RF On/Off                        |
| 9-15           | GND                              |



Note: All control levels are effective at the high level, while the low level and suspended level are invalid.



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

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

订货信息 Ordering Information:

| 标准型号 Part Number             | 描述 Description                                                                  | 版本号Revision |
|------------------------------|---------------------------------------------------------------------------------|-------------|
| TURPA13.75G14.5G-5555        | Power amplifier 13.75-14.5GHz,Gain:55dB,Psat:55dBm,<br>+28V DC,Without Heatsink | Rev.1.1     |
| TLPA13.75G14.5G-55-<br>55-HS | Power amplifier 13.75-14.5GHz,Gain:55dB,Psat:55dBm,<br>+28V DC,With Heatsink    | Rev.1.1     |