

Model:TLPA26.5G40G-49-43
Power Amplifier
26.5-40GHz,Gain:49dB,Psat:43dBm
Feature:

- Ultra Wide Band:26.5-40GHz
- Gain:49dB Typ
- Psat Output Power: 43dBm 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 | 26.5-40 | | | GHz |
| 增益 Gain | 46 | 49 | | dB |
| 增益平坦度 Gain Flatness | | ±4.5 | | dB |
| 线性输出功率 Output P1dB | 40 | | | dBm |
| 饱和输出功率 Output Psat | | 43 | | dBm |
| 杂散 Spurious | | | -50 | dBc |
| 谐波 Harmonics | | | -20 | dBc |
| 输入/输出驻波 Input/Output VSWR | | 2 | 2.5 | :1 |
| 直流电压 DC Voltage | | +24 | | V DC |
| 直流电流 DC Supply Current | | | 9 | A |
| 阻抗 Impedance | 50 | | | Ohms |

机械特性 Mechanical Specifications:

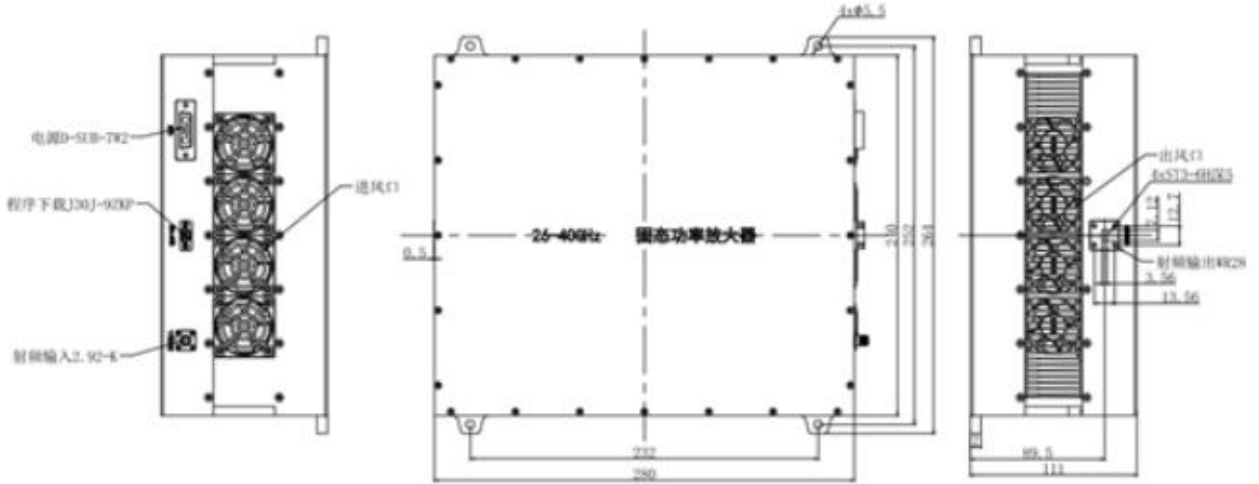
| 参数Parameter | 指标 Value | 单位Units |
|--------------------------------|------------------|---------|
| 输入输出接口 Input /Output Connector | 2.92 Female WR28 | |
| 直流偏置 DC Bias | Solder Pin | |
| 尺寸 Size | / | mm |
| 重量 Weight | 11 | Kg |

绝对最大值 Absolute Maximum Ratings:

| 参数Parameter | 指标 Value |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage | A1:+24V;A2:GND |
| 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: Inch



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 | | +75 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 50,000 | | | 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 |
|-----------------------|--|-------------|
| TLPA26.5G40G-49-43 | Power amplifier 26.5-40GHz,Gain:49dB,Psat:43dBm, +24V DC,Without Heatsink | Rev.1.1 |
| TLPA26.5G40G-49-43-HS | Power amplifier 26.5-40GHz,Gain:49dB,Psat:43dBm, +24V DC,With Heatsink | Rev.1.1 |