

Model:TLPA0.5M5M-53-53-BC
**Solid State High Power Amplifier Systems
 0.5-5MHz,Gain:53dB.Psat:53 dBm.220V AC**
Feature:

- Wide Band: 0.5-5MHz
- Gain: 53dB Min
- Psat Output Power:53dBm 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 | 代码 Symbo | Min | Typ | Max | 单位Units |
|------------------------|-------------|------------|---------|-----------|---------|
| 频率范围 Frequency range | BW | 0.5-5 | | | MHz |
| 增益 Gain | GP | 53 | 55 | | dB |
| 增益平坦度 Gain flatness | Δ GL | | ± 1 | ± 1.5 | dB |
| 饱和输出功率 Output Psat | Psat | | 48 | | dBm |
| 杂散 Spurious | Spur | | | -60 | dBc |
| 谐波 Harmonics | HAM | | | -10 | dBc |
| 输入驻波 Input VSWR | VSWRin | | 1.5 | 2.0 | :1 |
| 交流电压 AC Voltage | Vac | 110 | 220 | | V AC |
| 交流电流 AC Supply Current | Iac | 5A@220V AC | | | A |
| 阻抗 Impedance | I/O-IMP | 50 | | | Ohms |

机械特性 Mechanical Specifications:

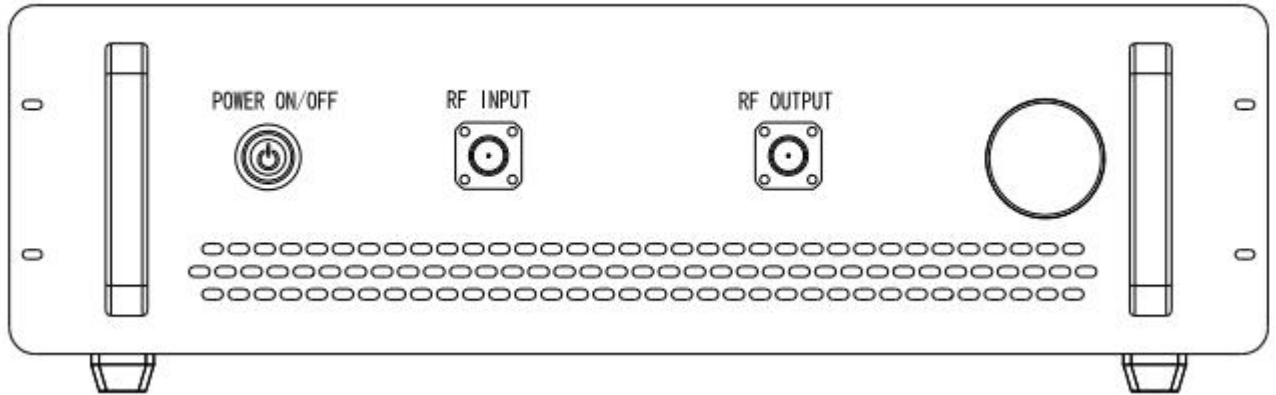
| 参数 Parameter | 指标 Value | 单位Units |
|--------------------------------|-------------------|---------|
| 输入输出接口 Input /Output Connector | N Female/N Female | |
| 尺寸 Size | 3U*500 depth | mm |
| 重量 Weight | 17 | Kg |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter | 指标 Value |
|------------------------------|----------------------|
| 输入功率 RF Input Power | 5 dBm |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形尺寸 Outline Drawing:

Unit: mm



主要功能 Key Features:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

| 参数 Parameter | 特点 Advantages |
|------------------------------|--|
| 控制功能 Control functions | 1, Power setting On/Off 2, ALC automatic level control |
| 内置保护功能 Protection functions | 1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR |
| 通信功能 Communication functions | RS422/Ethernet |
| 冷却系统 Cooling system | Built in Cooling system, forced air cooling |

温度环境 Environmental Conditions:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|-------------------------------------|---|-----|------|----------|
| 操作温度 Operating Temperature | -45 | | +50 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 30000 | | | 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 |
|---------------------|--|--------------|
| TLPA0.5M5M-53-53-BC | Solid State High Power Amplifier Systems 0.5-5MHz, Gain:53dB, Psat:53 dBm, 220V AC, Built in Fan Cooling | Rev.1.0 |