

**Model:THPA1M200M-53-53-BC**

**Solid State High Power Amplifier Systems  
1-200 MHz,Gain:53dB,Psat:53dBm,220V AC**

**Feature:**

- Ultra Wide Band: 1-200 MHz
- Gain: 53 dB Min
- Psat Output Power: 53 dBm Min
- Protection:Over TEM,Over voltage, Over current protection.
- 50 Ohm Matched Input / Output



**电气特性 Electrical:**

| 参数Parameter                 | Min.  | Typ. | Max. | 单位Units |
|-----------------------------|-------|------|------|---------|
| 频率范围 Frequency range        | 1-200 |      |      | MHz     |
| 增益 Power Gain               | 53    |      |      | dB      |
| 增益平坦度 Gain Flatness         |       |      | ±3.0 | dB      |
| 增益可调范围Gain adjustable range |       | 23   |      | dB      |
| 饱和输出功率 Psat                 | 50    |      |      | dBm     |
| 谐波 Harmonics@Pout=100W      |       |      | -15  | dBc     |
| 输入驻波 Input VSWR             |       |      | 1.3  | :1      |
| 输入功率 Input Power            |       |      | 0    | dBm     |
| 交流电压 AC Voltage             |       | 220  |      | V AC    |
| 阻抗 Impedance                | 50    |      |      | Ohms    |

**机械特性 Mechanical :**

| 参数Parameter                       | 指标 Value    | 单位Units |
|-----------------------------------|-------------|---------|
| 输入输出接口<br>Input /Output Connector | N Female    |         |
| 通信端口 Communication Interfaces     | GPIB/LAN    |         |
| 尺寸 Size                           | 500×480×212 | mm      |
| 重量 Weight                         | TBD         | Kg      |

**绝对最大值 Absolute Maximum Ratings:**

| 参数Parameter                  | 指标 Value             |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage   | 240V AC              |
| 输入功率 RF Input Power          | 0 dBm                |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

**外形尺寸 Outline Drawing:**

Unit: mm

**温度环境 Environmental Conditions:**

| 参数 Parameter                       | Min.   | Typ. | Max. | 单位 Units |
|------------------------------------|--|------|------|----------|
| 操作温度 Operating Temperature         | 0  |      | +40  | °C       |
| 存储温度 Non-operating Temperature     | -15  |      | +65  | °C       |
| 相对湿度 Relative humidity             |  | 95   |      | %        |
| 海拔 Altitude                        | 50,000   |      |      | 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 11msec 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 |
|---------------------|--|--------------|
| THPA1M200M-53-53-BC | Solid State High Power Amplifier Systems, 1-200MHz, Gain: 53dB, Psat: 53dBm, 220V AC<br>Protection: Over TEM, over voltage, over current protection. | Rev.1.1      |