泰莱微波
Talent Microwave

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# Model:TLPA1.1G1.4G-53-53-BC

## Solid State High Power Amplifier Systems 1.1-1.4GHz,Gain:53dB,Psat:53dBm

**Feature:**

- Frequency range: 1.1-1.4GHz
- Gain: 53dB Min
- Psat Output Power: 53 dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- Suitable for CW, AM, FM, Pulse
- 50 Ohm Matched Input / Output

## Electrical Specifications:

| Parameter | Symbo | Min | Typ | Max | Units |
|---|---|---|---|---|---|
| Frequency range | BW | 1.1-1.4 | | | GHz |
| Gain | GP | 53 | 54 | | dB |
| Gain Flatness | ΔGL | | ±1.0 | ±2.0 | dB |
| Output P1dB | P1dB | | 50 | | dBm |
| Output P1dB | Psat | 53 | | | dBm |
| Spurious | Spur | | | -60 | dBc |
| Harmonics | HAM | | | -10 | dBc |
| Input VSWR | VSWRin | | 1.5 | 2.0 | :1 |
| AC Voltage | Vac | 110 | 220 | | V AC |
| DC Supply Current | Iac | 5A@220V AC | | | A |
| Impedance | I/O-IMP | 50 | | | Ohms |

## Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Input /Output Connector | N Female/N Female | |
| Forward/Reverse Coupling | SMA Female/ SMA Female | -40dB |
| Size | 3U*500 | mm |
| Weight | ≤17 | Kg |

## Absolute Maximum Ratings:

| Parameter | Value |
|---|---|
| RF Input Power | 5 dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |

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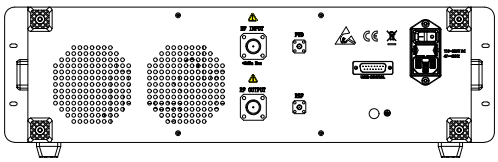
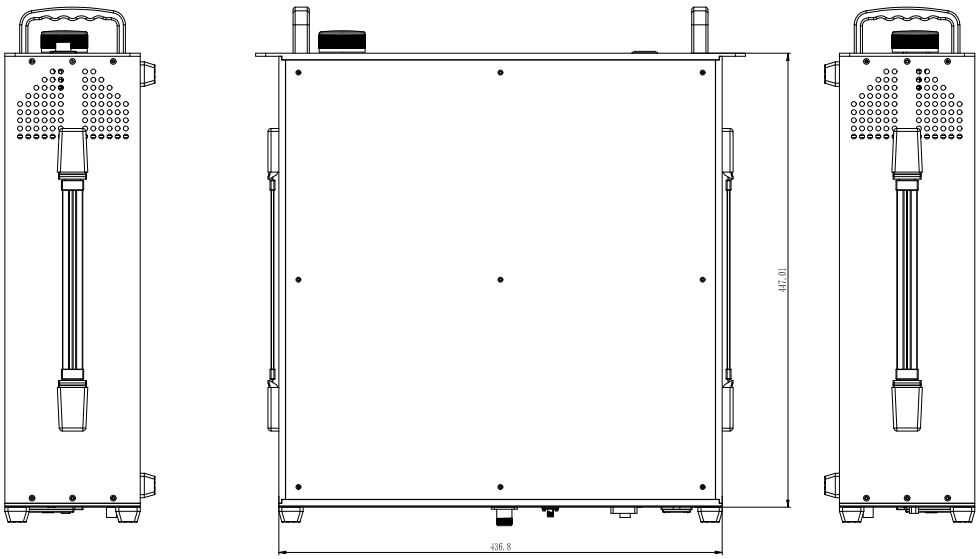
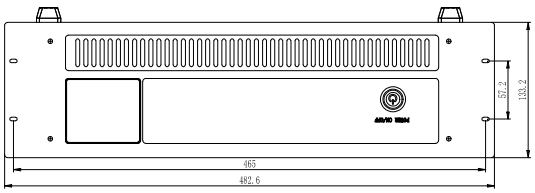
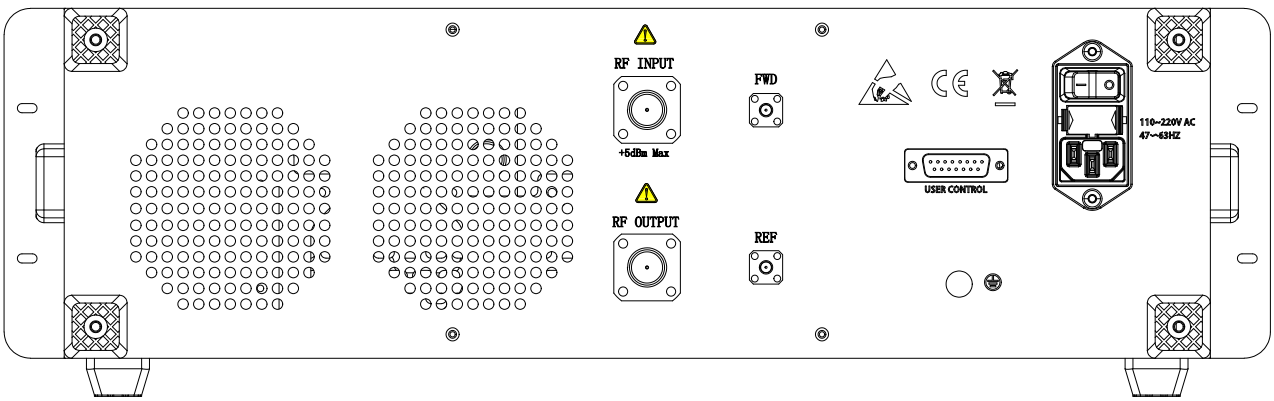
## Outline Drawing:

Unit: mm





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## Kye Features:

| Parameter | Advantages |
|---|---|
| Control functions | 1, Power setting On/Off |
| Protection functions | 1,Over TEM<br>2,Over voltage<br>3,Over current protection<br>4,Over VSWR |
| Cooling system | Built in Cooling system,forced air cooling |

## Environmental Conditions:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Operating Temperature* | -20 | | +40 | ℃ |
| Non-operating Temperature* | -30 | | +50 | ℃ |
| Relative humidity | | 95 | | % |
| Altitude | 10000 | | | feet |
| Shock / Vibration(MIL-STD- 810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis | | | |
| Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

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

## Ordering Information:

| Part Number | Description | Revision |
|---|---|---|
| TLPA1.1G1.4G-53-53-BC | Solid State High Power Amplifier Systems 1.1-1.4GHz,Gain:53dB,Psat:53dBm,220V AC,Built in Fan Cooling | Rev.2.1 |

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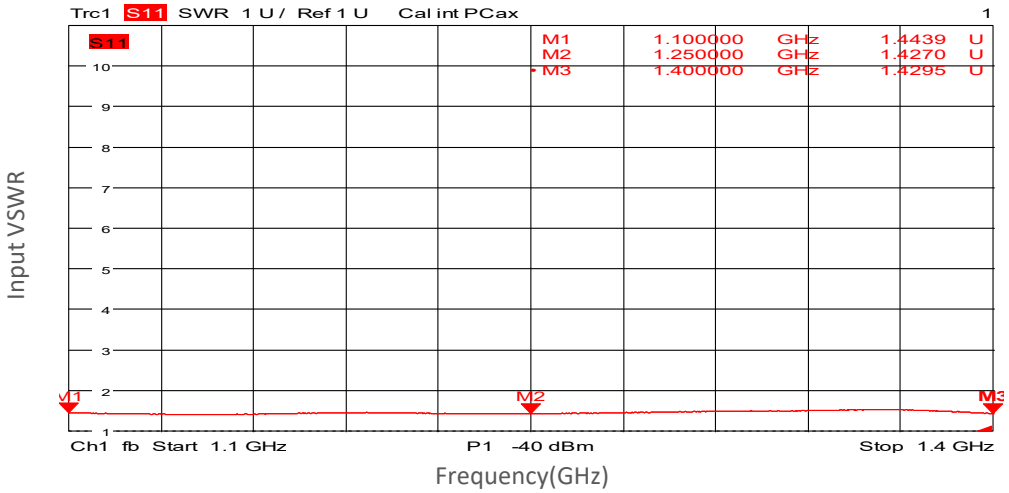
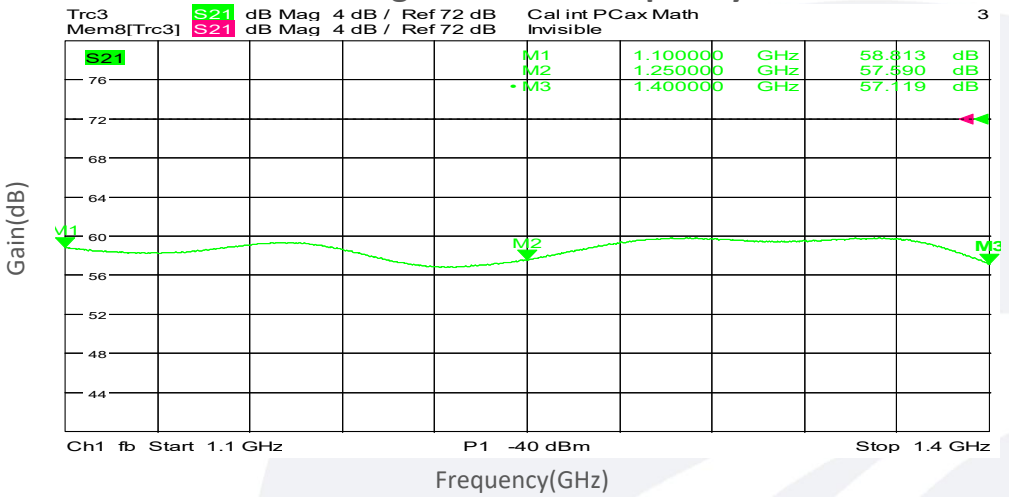
## Typical Performance Data:

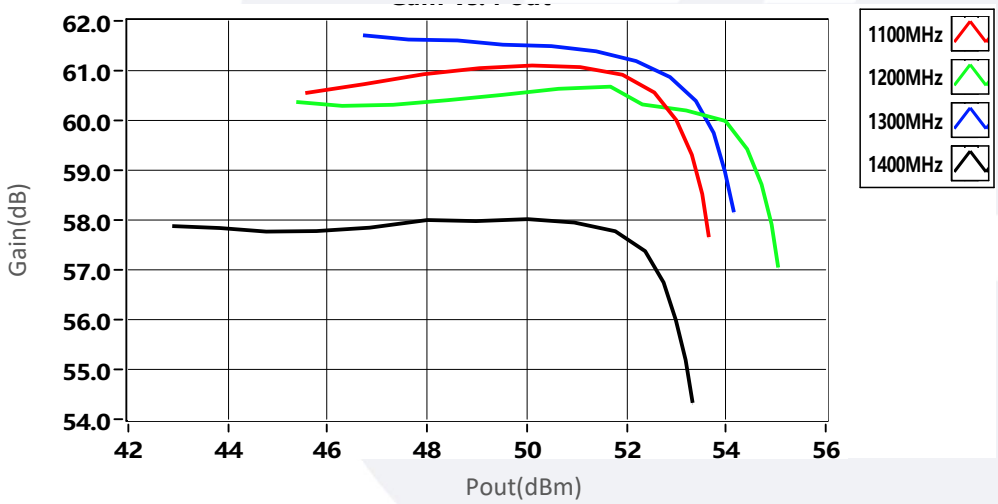
### Input VSWR vs Frequency




### Small Signal Gain vs Frequency




### Gain vs Output Power




Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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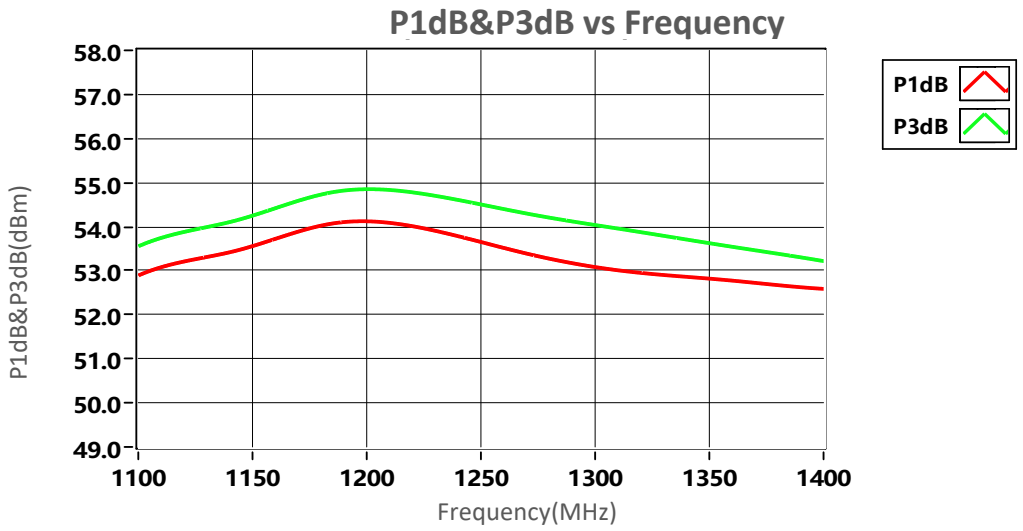


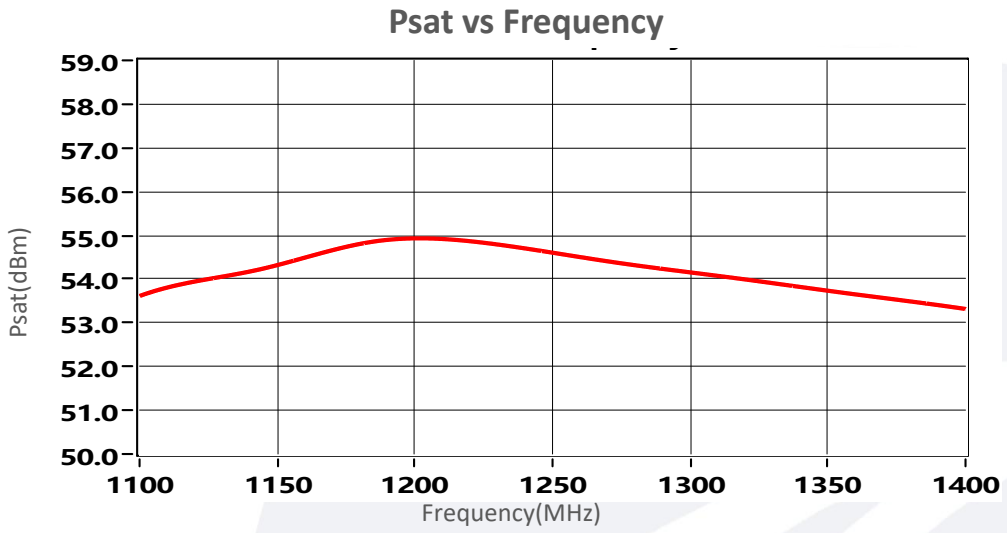


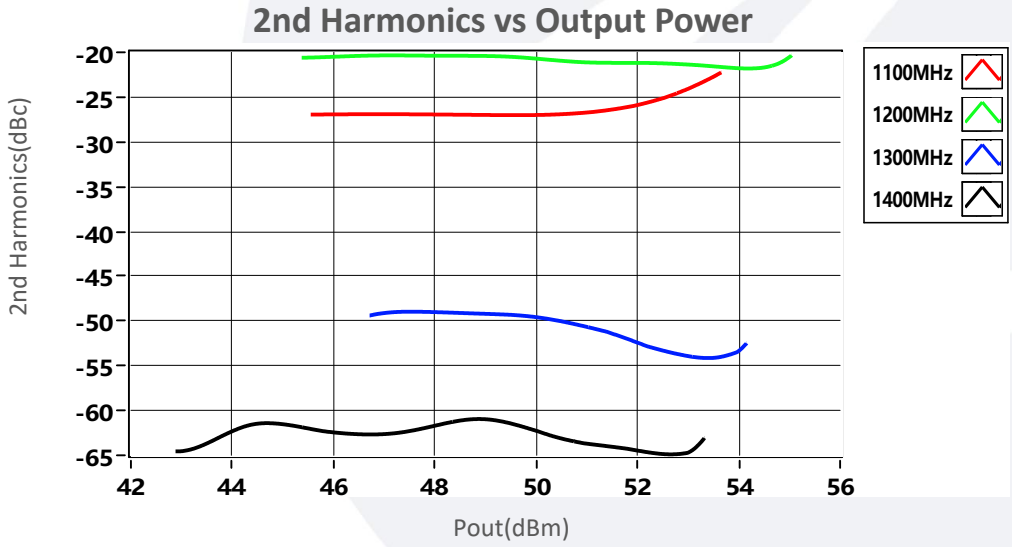


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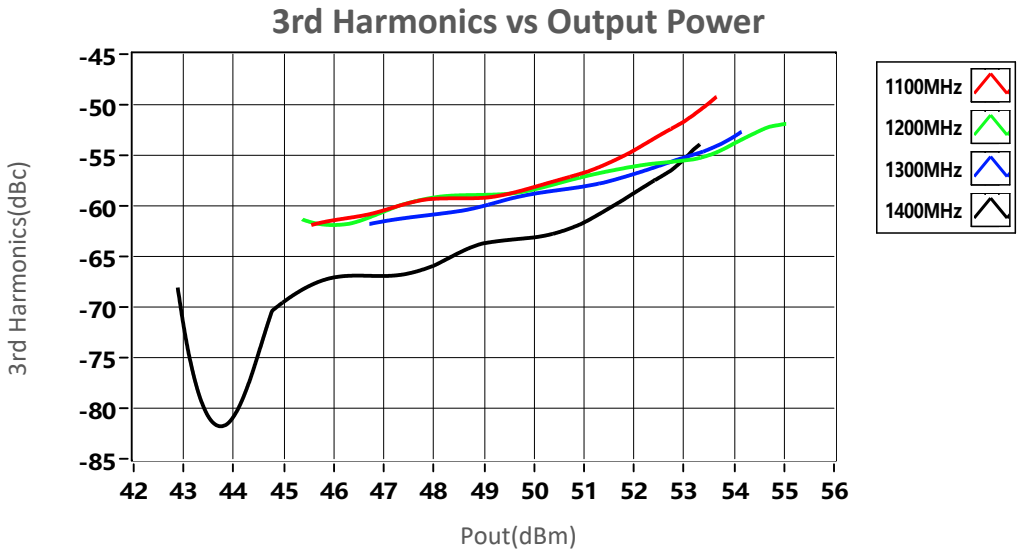


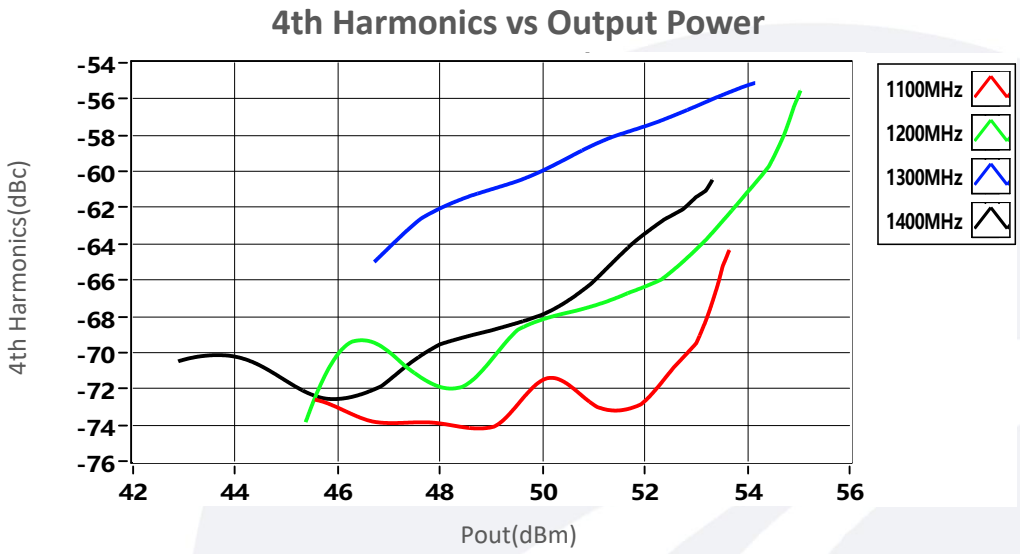


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