



# Power Amplifier

## Model: PA-10G-14G-200

10-14GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 10-14GHz
- High output power at saturation, 200W Min.
- High gain, 53 dB Min.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-10G-14G-200 is a power amplifier with a minimum power gain of 53 dB and a minimum Psat of 200W across the frequency range of 10 to 14 GHz. The DC power requirement for the amplifier is +24 VDC/1600 W. The input port configuration offers coax adapter structure with N female and output port is WR75.



## Electrical Specifications at 25°C:

| Parameter               | Min | Typ  | Max  | Units |
|-------------------------|-----|------|------|-------|
| Frequency range         | 10  |      | 14   | GHz   |
| Power Gain              | 53  |      |      | dB    |
| Power Gain Flatness     |     | ±3   |      | dB    |
| Power Gain adjust Range |     | 31.5 |      | dB    |
| Power Gain adjust Step  |     | 0.5  |      | dB    |
| Output Psat             | 53  |      |      | dBm   |
| Spurious@Pout=53dBm     |     |      | -50  | dBc   |
| Harmonics@Pout=53dBm    |     |      | -15  | dBc   |
| Input VSWR              |     |      | 2    | :1    |
| DC Voltage              |     | +24  |      | V DC  |
| Power Consumption       |     |      | 1600 | W     |
| Impedance               |     | 50   |      | Ohms  |

## Mechanical Specifications:

| Parameter                       | Value   | Notes |
|---------------------------------|---|-------|
| Operating Temperature*          | -20°C to +50°C                                      |       |
| Non-operating Temperature*      | -30°C to +60°C                                      |       |
| Relative humidity               | 95  | %     |
| RF Input/Output Connector       | N Female/WR75                                       |       |
| DC Power Supply Connector       | Y50DX-1404  |       |
| Control Connector               | Y50X-1013   |       |
| Altitude                        | 10,000  | 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  |       |
| Dimensions W x H x D            | 360*280*120   | mm    |
| Weight                          | ≤15   | Kg    |

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



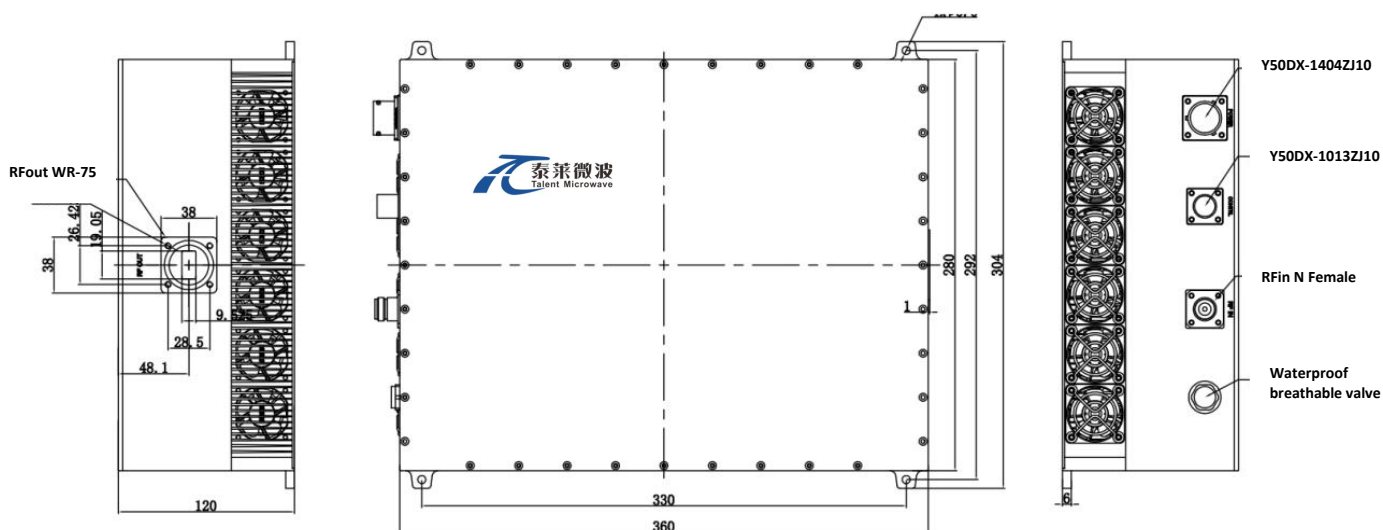
## Absolute Maximum Ratings:

| Parameter             | Value                |
|-----------------------|----------------------|
| RF Input Power        | +10 dBm              |
| ESD sensitivity (HBm) | Class 0, passed 150V |

## Outline Drawing:

Unit:mm

PA-10G-14G-200



## Ordering Information:

| Base Number    | Description  | Optional      |
|----------------|--|---------------|
| PA-10G-14G-200 | Power Amplifier, 10-14GHz<br>Gain:53dB,Psat:200W,+24V DC | With Heatsink |