

## Product features

Suitable for fields such as drone interference and aging testing.

## Tech specifications

| Parameters            | Min  | Typical | Max  | Units |
|-----------------------|------|---------|------|-------|
| Frequency             | 2110 | ~       | 2170 | MHz   |
| Gain                  | 50   | 51      | 52   | dB    |
| Gain flatness         |      |         | ±1   | dB    |
| Input VSWR            |      |         | 1.6  |       |
| Psat                  | 47   | 48      | 49   | dBm   |
| Max input power       |      |         | 10   | dBm   |
| ALC control range     | 10   |         |      | dB    |
| Gain Adjustment Range | 25   |         |      | dBc   |

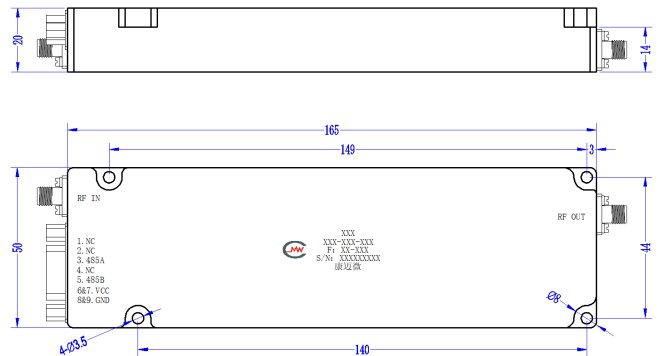
## Environmental

|                          |   |
|--------------------------|---|
| Connector                | SMA-K   |
| Temperature protection   | +85 °C over temperature alarm and shutdown, 65 °C open  |
| Ripple                   | ≤2.5dB  |
| Impedance                | 50Ω   |
| Surface                  | Grey  |
| Working voltage          | +28V  |
| Working current          | 7500mA  |
| Operation Temp.          | -40~+55°C Design assurance  |
| Gain adjustment accuracy | Attenuation of 10dB: ≤ ± 1dB; Attenuation of 20dB: ≤ ± 1dB; Attenuation of 25dB: ≤ ± 1.5dB  |
| VSWR Alarm protection    | After VSWR alarm, the power of the amplifier drops to 3W, and the amplifier automatically returns to normal after VSWR returns to normal. |

## Reference picture



## Configuration



## Monitoring function

RS485 interface

- 1) Settings: switch, gain;
- 2) Query: Module status (including amplifier status, over power alarm, over temperature alarm), amplifier temperature, amplifier ATT value, detected forward power;
- 3) Overpower alarm: If the power exceeds the maximum output power by +2dB, an alarm will be triggered;
- 4) Over temperature alarm: It is recommended to set the threshold to +85 °C. If the temperature exceeds +85 °C, an alarm should be triggered and the power amplifier should be turned off. When +65 °C is reached, the power amplifier should be turned on;
- 5) Temperature detection of power amplifier: The detection range is required to include but not limited to -25 °C to +85 °C, and the detection accuracy is required to be ± 3 °C;
- 6) Forward power detection: The detection range should be greater than 20dB, and the detection accuracy should be less than ± 1dB;

## Note

Store in an environment with a humidity of less than 25%, pay attention to dust and anti-static measures, and consider amplifier heat dissipation during installation.