

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

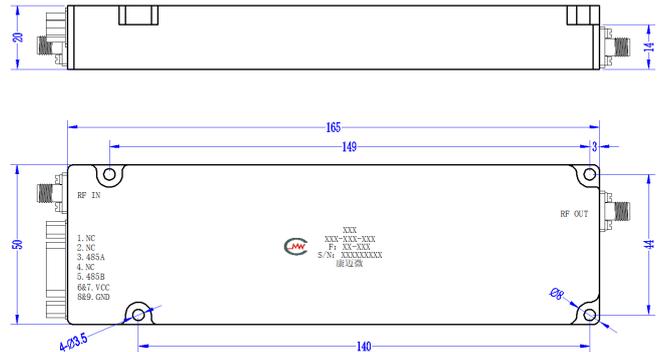
Environmental

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.