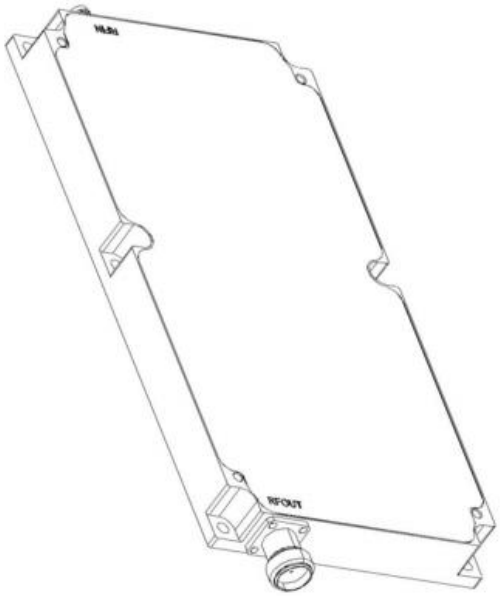
2000-6000MHz 100W PA Module

Description

CE-YNX-PM-20601BD is a 100W power amplifier module dedicated to 2000-6000MHz signals, both pulse and cw signal. The module provides 28V power supply mode, the overall size is 220mm×110mm×20mm(without connectors)

Specification

S/N	Parameter	Value
1	Frequency(GHz)	2-6
2	Power Gain(dB)	50
3	Gain Flatness(dB)	±1.5
4	Input Power(dBm)	+0，Max:+6
5	Signal Type	CW
6	Output Power(W)	100
7	Efficiency(%)	25
8	Vcc (V)	+28
9	2nd Harmonic(dBc)	≤-10
10	3rd Harmonic(dBc)	≤-15
11	Spurious suppression(dBc)	≤-70
12	Input VSWR	1.5:1
13	Work Temperature(℃)	-45~+75
14	Storage Temperature(℃)	-55~+85



Function

S/N	Function	Parameter
1	Voltage monitor	RS485 serial port command
2	Current monitor	RS485 serial port command
3	Temperature monitor	RS485 serial port command
4	Forward power monitor	RS485 serial port command
5	Reverse power monitor	RS485 serial port command
6	Power supply alarm and protection	When the power supply voltage exceeds 32V, a voltage alarm will be generated and the power supply to the amplifier drain will be cut off; When the current exceeding 15A, will generate a current alarm and cut off the power supply to the amplifier drain
7	Temperature alarm	When the module exceeds 95℃, a temperature alarm will be generated and the power supply to the amplifier drain will be cut off.
8	Vswr alarm	When the RF output port of the detection module is open or short circuited, the power amplifier will generate a standing wave alarm and cut off power

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Interface Definition

S/N	Mark	Connector	Description
1	RFIN	SMA-50KFD	50Ω
2	RFOUT	N type-50KFD	50Ω
3	POW&CON	J30J-21ZKN	See POW&CON definition

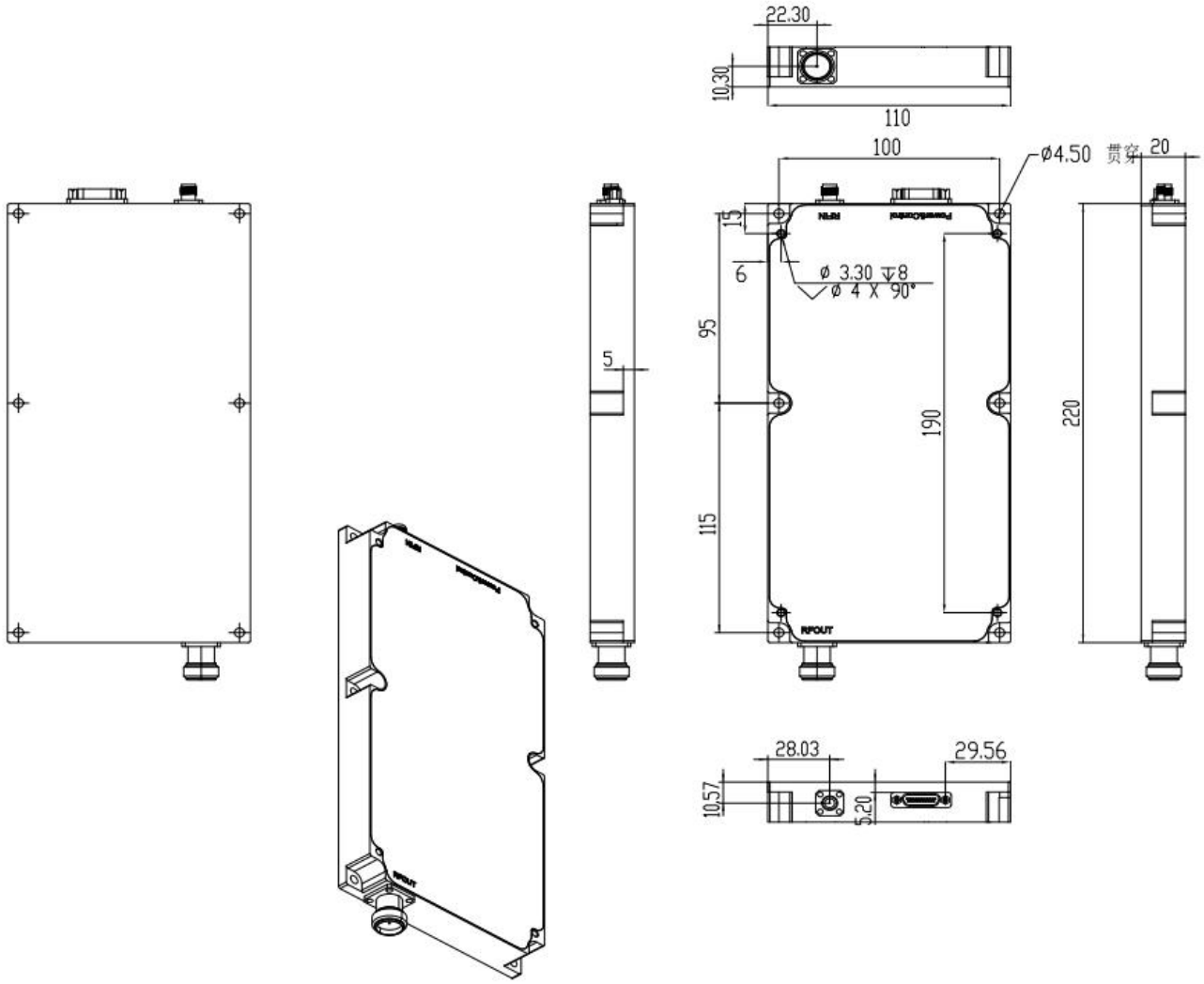
POW&CON definition

S/N	Mark	Definition	Function	备注
1	PIN01	+28V	DC Power+	
2	PIN02	+28V	DC Power+	
3	PIN03	+28V	DC Power+	
4	PIN04	+28V	DC Power+	
5	PIN05	+28V	DC Power+	
6	PIN06	+28V	DC Power+	
7	PIN07	+28V	DC Power+	
8	PIN08	+28V	DC Power+	
9	PIN09	GND	Ground	
10	PIN10	GND	Ground	
11	PIN11	GND	Ground	
12	PIN12	GND	Ground	
13	PIN13	GND	Ground	
14	PIN14	GND	Ground	
15	PIN15	GND	Ground	
16	PIN16	GND	Ground	
17	PIN17	PAEN	Enable	3.3V on; 0V off
18	PIN18	RS422T+	communication	Support RS422 and RS485
19	PIN19	RS422T-	communication	RS433: Pin18-Pin21
20	PIN20	RS485+/ RS422R+	communication	RS485: Pin20-Pin21
21	PIN21	RS485-/ RS422R-	communication	

DC BIAS SEQUENCING

Turn On PA Module	Turn Off PA Module
1. All connectors are installed(Especially the output connector) 2. RF Power Off 3. Set DC=28V 4. Turn on PAEN 5. Turn on RF Power(Max 10dbm)	1. Turn off RF Power 2. Turn off DC28V and PAEN

Structure



Housing Material

6061 Aluminum and T2 Copper，Native Conductive Oxidation。

Weight

≦1.2kg

Attention

a) Before use, correctly identify the power supply characteristics and polarity of the product, identify the output interface and control interface of the product, and correctly use the interface.

b) **The module output cannot be unloaded; The working voltage of the module shall be kept at +28V (the maximum working voltage shall not exceed +30V);**
The input signal cannot exceed +6dBm.

c) During the use of the module, do not plug or unplug the module with power or signal;

d) In order to make the module reach the best working state, try to make the module work at the temperature of -40 ℃ ~+55 ℃, maintain sufficient heat dissipation conditions of the module (ensure good contact between the module and the radiator), and do not operate over temperature;

e) Anti static measures shall be taken during module operation, and the module shall not be used in a strong static environment as far as possible;

f) The module shall be stored in a dust free, moisture-proof and anti-static manner.

Transportation and storage

Transportation: Packaged products shall be escorted to the Demander by special personnel without direct impact of rain, snow and scorching sun (if other modes are selected, please specify the transportation mode). Care shall be taken during transportation to prevent falling.

The storage environment shall meet the following requirements:

a) The ambient temperature is 5℃~30℃;

b) The relative humidity is not more than 80%;

c) There should be no strong mechanical vibration, strong electricity and magnetic field;

d) Have good ventilation and dust prevention measures and keep them clean;

e) It shall be able to prevent various harmful gases and corrosive chemicals from damaging the packaged products.