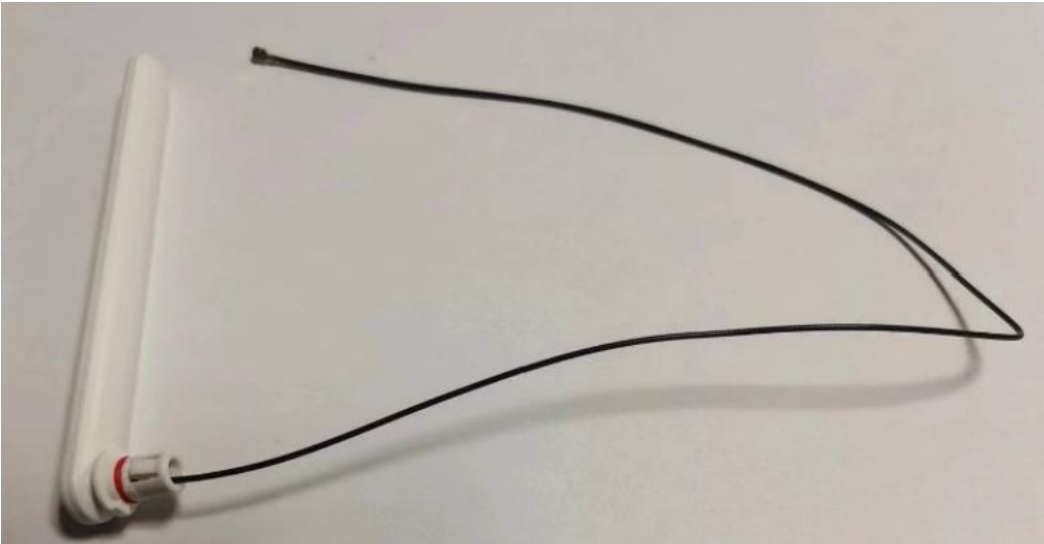


			document number:
Specification For Approval			
customer name: Customer:			
Supplier name: Customer:			
Customer part number:		Supplier part number:	
product description:	2.4-5.8W71 White antenna L=250 mm + terminals	Appropriate model:	
Suppliers Acknowledgment (seal):		Customer acknowledges (stamp):	
Produced by: Zhou Jingfeng	Structure: Zhou Jingfeng		
examine and verify:	Date: 2024.03.01		

catalogue

the title page of a thread-bound book	1
catalogue	2
1. Product pictures	3
2. Product parameters	3
3. S11, dark room data	4--7
4. Antenna efficiency and gain value.....	8
5. Product size drawing.....	9
6. Environmental reliability test report	10

1. Product pictures



2. Product parameters

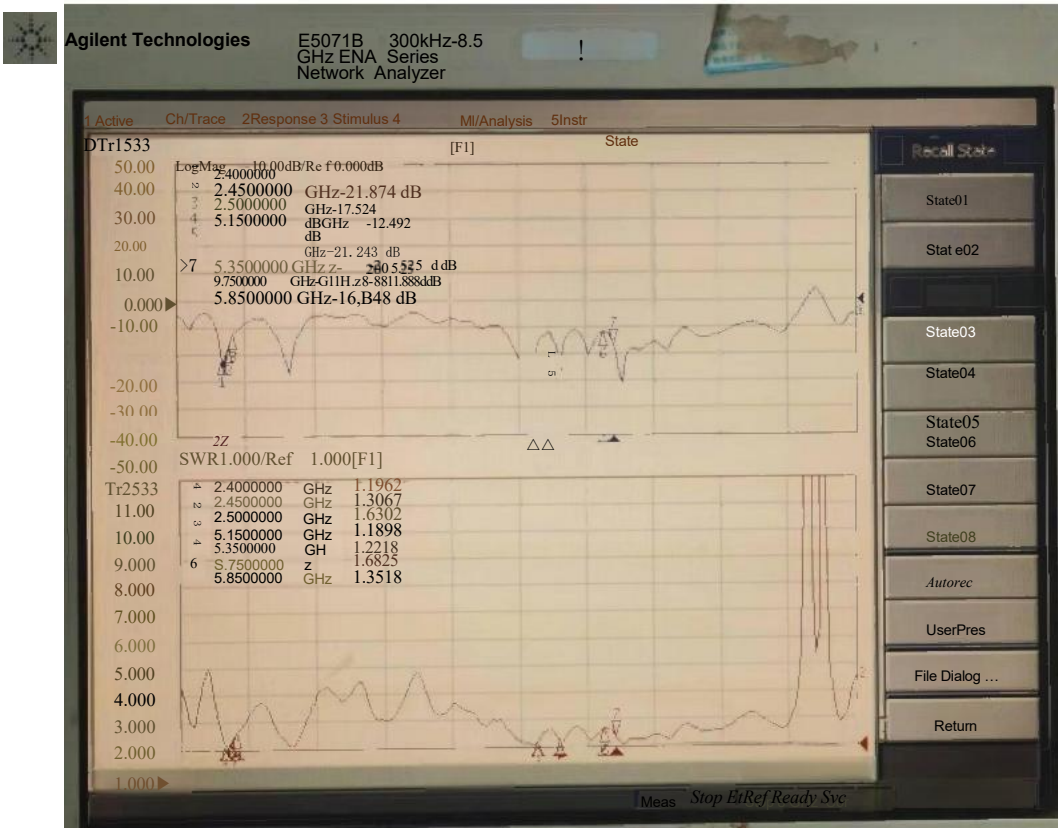
Product test parameters			
Product name (Name)	2. 4-5.8W71 White antenna L=250 mm + terminals	Product model (Model Type)	
Electrical performance index (Electrical Specifications)			
Frequency range (Frenquency Range)	2. 4G-5. 8G	Polarization mode (Polarization)	perpendicular
Input impedance (Impedance)	50 Ω	radiation direction	omnidirectional
Standing wave ratio	≤2	Power capacity	50W

(VSWR)		(Power)	
Gain (Gain)	3dBi	Bandwidth (Bandwidth	100MHz

Mechanical indicators (Mechanical Specifications)			
Size (Dimensions)	105.5MM±2MM	Antenna color (Chassis Color)	white
Connector model (Connector)	terminal	Cable length (Cable Length)	250MM±5MM
Antenna material (Chassis material)	ABS		
working temperature (Working Temperature)	-40℃±85℃	Store temperature (Limit Temperature)	-40℃±85℃

3. S11 (VSWR, Return loss, Smith) --anechoic chamber test data

1. Network analyzer report



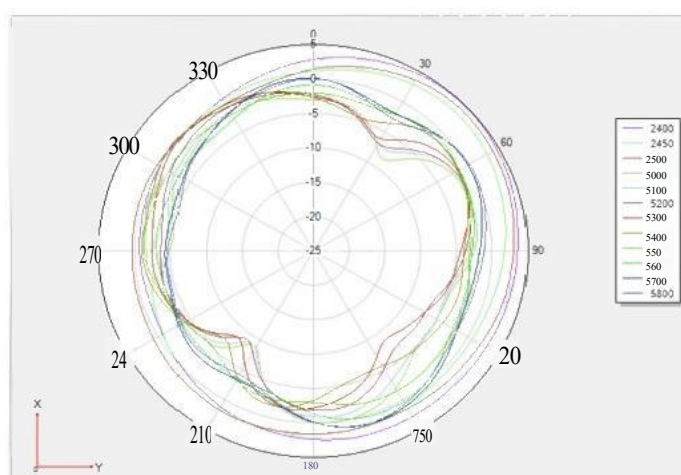
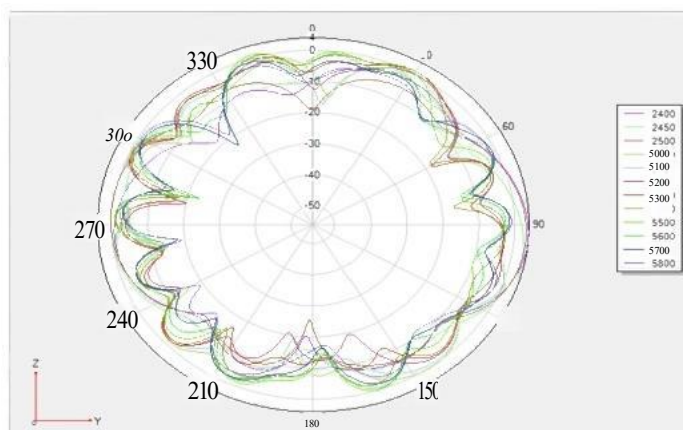
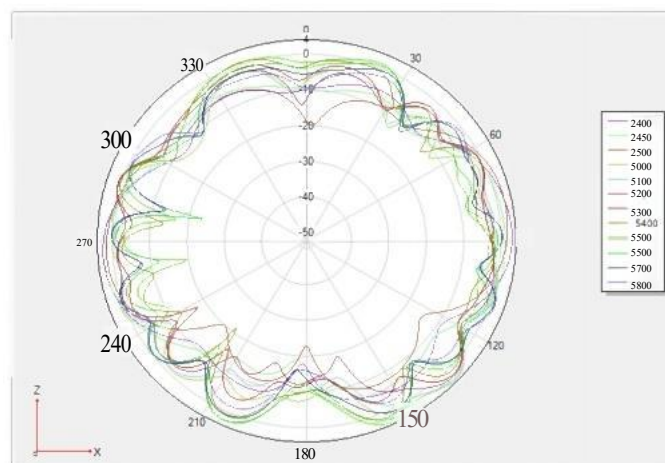
61
straight

Calibration certificate
Receiver number 024

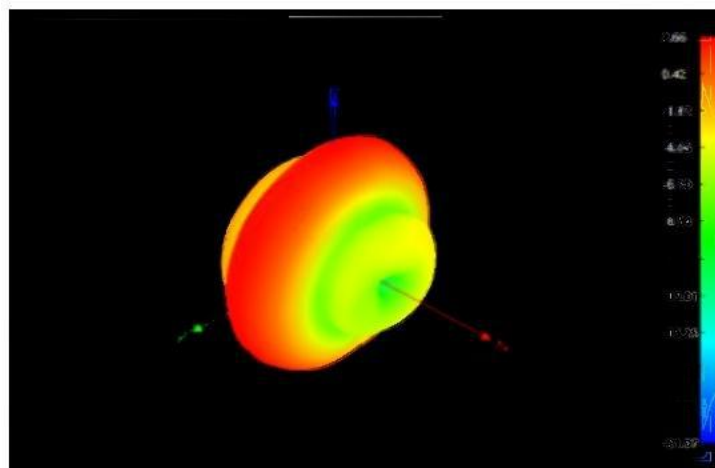
22
USB

Avoid Static
Discharge

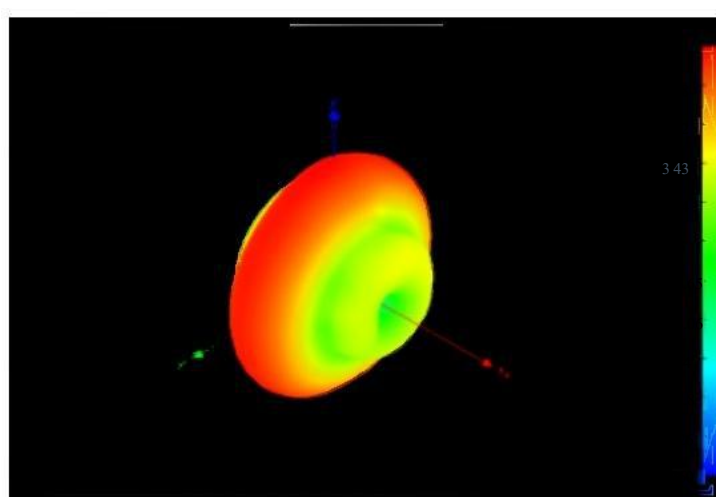
two. Dark room data 2 D direction diagram



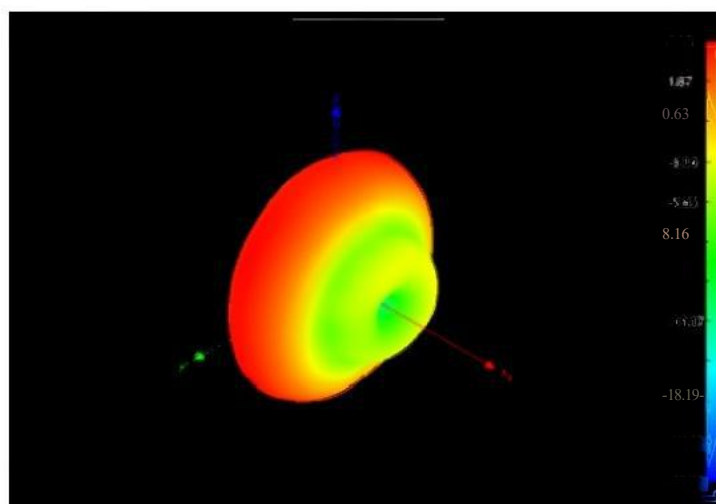
three. Dark room data 3 D direction diagram



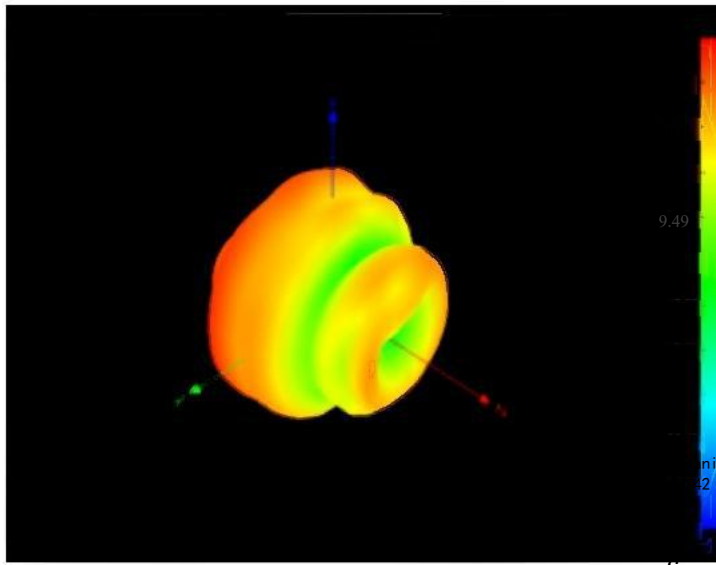
2400MHZ



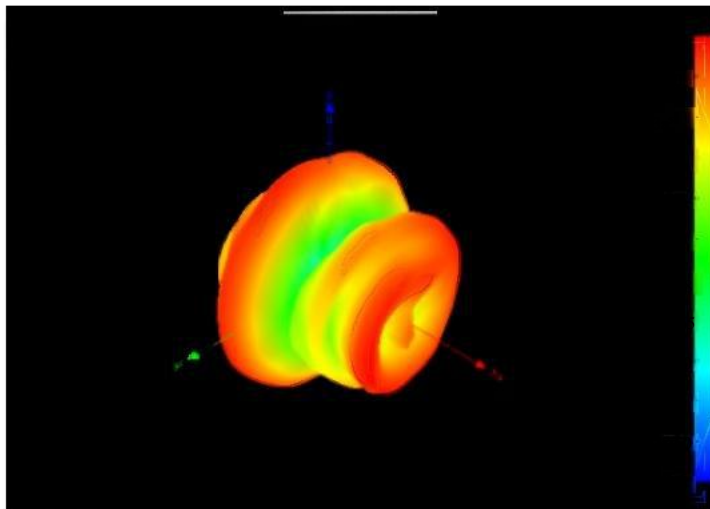
2450MHZ



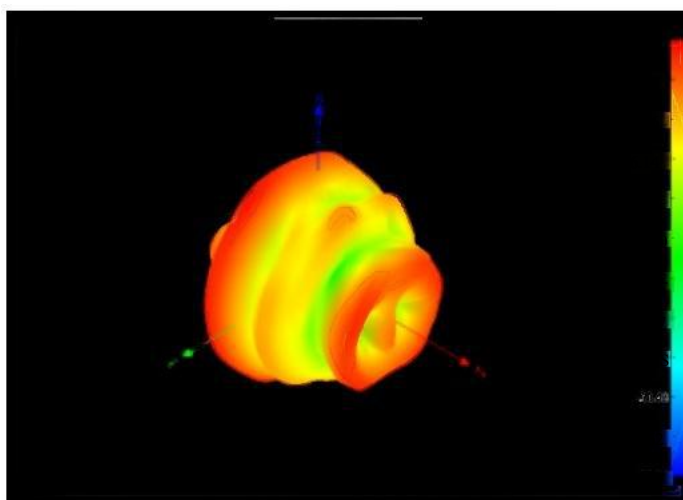
2500MHZ



5000MHZ



5400MHZ

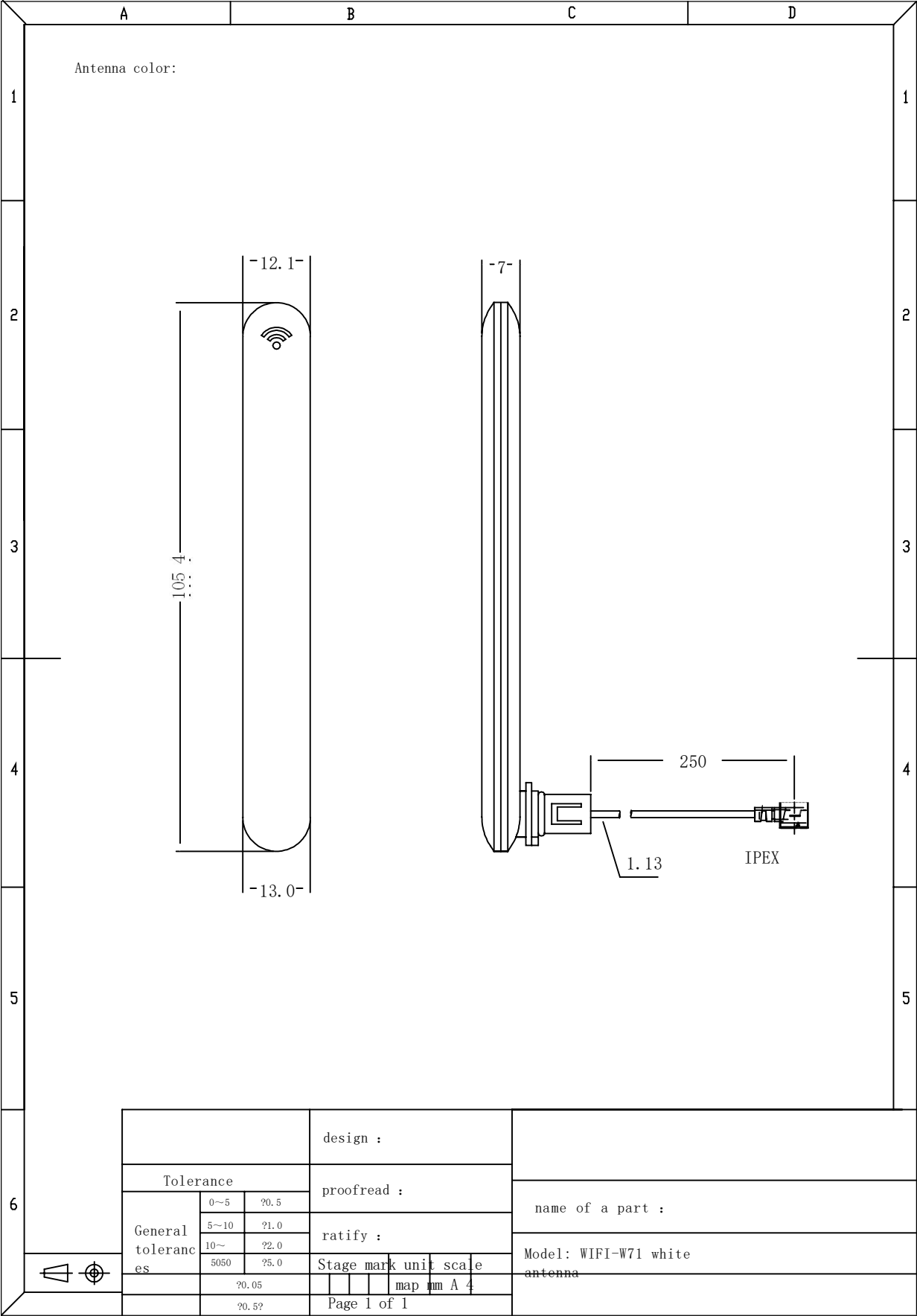


5800MHZ

4. Antenna efficiency and gain value

Frequenc	Efficiency	Efficiency / %	Frequenc	MaxGain/	AvgGain/dBi
2400	-3.03	49.77	2400	2.66	-3.03
2450	-2.22	59.98	2450	3.79	-2.22
2500	-1.67	68.08	2500	4.38	-1.67
5000	-3.15	48.42	5000	1.65	-3.15
5100	-2.67	54.08	5100	0.26	-2.67
5200	-2.3	58.88	5200	0.17	-2.3
5300	-2.34	58.34	5300	1.16	-2.34
5400	-2.46	56.75	5400	1.55	-2.46
5500	-2.68	53.95	5500	1.66	-2.68
5600	-3.14	48.53	5600	1.64	-3.14
5700	-2.67	54.08	5700	2.18	-2.67
5800	-2.26	59.43	5800	2.51	-2.26

5. Product size drawing



6. Environmental performance test

Storage environment	Test temperature, humidity and air pressure are tested as follows in the absence of a specification: 1. The temperature is $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 2. Relative humidity is 45%-85% 3. The air pressure is 86 kpa-106 kpa	Electrical and mechanical performance is normal
thermocycling	Five cycles were performed between 70°C and 40°C , followed by normal conditions 1-2H, check appearance quality.	The size shall meet the requirements and should be Its fulfilling Mechanical and electrical properties
Resistant to constant humidity and heat trial	Relative humidity $95 \pm 3\%$, test temperature: 40°C . After 2H action, The electrical properties of the sample were measured within 5 min after the sample was removed, and the sample was normal Check the appearance quality after 1-2H	The size shall meet the requirements and should be Its fulfilling Mechanical and electrical properties
vibration test	Frequency range: 10-55 HZ, displacement amplitude: 0.35 MM, acceleration amplitude: 50.0M/S, Frequency sweeping cycle: 30 times	Electrical and mechanical performance is normal
fall-down test	The 1M high altitude falls freely in the direction of mutually perpendicular axes for 3 times	Electrical and mechanical performance is normal