

## Product specifications

Customer Name: \_\_\_\_\_

Customer P/N: ; \_\_\_\_\_

Specification: SMA (ZJ)-2.4G Rubber Antenna

Model: KH-SMA (ZJ)-2.4G

Date: \_\_\_\_\_

\_\_\_\_\_

Customer confirmation		
confirmation	Checked	Approval

Manufacturer acknowledges			
Sales representative	Fictitious	Checked	Approval

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Modify record			
REV	Modified content	Engineer	Date
A0	New		

### 3. Product dimension drawing



#### 4. Product appearance

Exterior dimensions		Fixed mode	Spiral fixation
Weight	≤6.5g	Connector model	SMA-J Gold-pating
Housing Color	Black	Cable	/

#### 5. Antenna performance parameters

Item	Characteristic	Unit
Frequency range	2400-2500	MHz
Output impedance	50	Ω
VSWR	Contrast waveform	---
Gain	≥1	dBi
Polarization	Vertical polarization	
Radiation Direction	Omnidirectional	
Maximum input power	5	W
Operating temp	-45~+80	°C
Storage temp	-45~+85	°C

#### 6. Cable head specification

##### Materials and coatings

No.	Part Name	Material	Plating	Remarks
1	Inner Conductor	Brass	Gold-pating	
2	Insulator	PTFE		
3	Housing	Brass	Gold-pating	

##### Electrical Specifications

No.	Testing items	Technical index	Remakes
1	Characteristic Impedance	50 Ω	
2	Operating range	-55~+155 °C	
3	Frequency range	0~3GHZ	
4	Dielectric withstand	1000V (rms)	
5	Contact Resistance	Inner Conductor : ≤3m Ω outside Conductor ≤2m Ω	
6	Insulation Resistance	≥5000M Ω	
7	VSWR	≤1.2 Flexible cable	

## 7. Environment Test

## Environmental Test Report

Part Number				Item & Spec	
Test Item	High-low temperature test, humidity test				
Test Equipment	Humidity Chamber		Sample size		
Test Standard	1. The plating on the metal surface shall be free of defects such as falling off, cracks and wrinkles; non-metallic parts shall be free of discoloration, cracks, deformation, degumming etc.				
Test Name	Test Item	Criteria	Test Mode	Result	
High Temperature Test	Temperature (°C) Time to test temperature of sample (h) Test duration (h) Recovery time (h)	85±3 1. 2. 1.	Steps: a) Put the tested part into the test chamber, and then adjust the temperature to 75 °C±3 °C, and monitor the time. b) After the test, place it at room temperature for 1 hour for routine inspection.	Acceptable	
Low Temperature Test	Temperature (°C) Time to test temperature of sample (h) Test duration (h) Recovery time (h)	-45±3 1. 2. 1.	Steps: a) Put the tested part into the test chamber, and then adjust the temperature to -40 °C±3 °C, and monitor the time. b) After the test, place it at room temperature for 1 hour for routine inspection.	Acceptable	
Humidity Test	Temperature (°C) Relative humidity (%) Test duration (h) Recovery time (h)	+40±3 90-95 21 1.	a) Put the tested part into the test chamber, and then adjust the temperature and humidity of the test chamber to +40 °C±3 °C and 90-95% respectively, and monitor the time. b) After the test, place it at room temperature for 1 hour for routine inspection.	Acceptable	
Test Item	Free Fall Test				
Test Equipment	Desktop with height of 1m		Test Sample		
Test Standard	1. If the product is falls at a height of 1m, it shall be free from falling off, cracks, defects, and appearance deformation etc.				
Test Name	Test Item	Criteria	Test Mode	Result	
Free Fall Test	Dropping height 1000mm	Drop 2 times from both sides	Steps: a) Drop the tested part at a height of 1000mm and conduct routine inspection after the test.	Acceptable	
Test Item	Salt Spray Test				
Test Equipment	Salt spray testing machine		Sample Size		
Test Standard	1. If the product is falls at a height of 1m, it shall be free from falling off, cracks, defects, and appearance deformation etc.				
Test Name	Test Item	Criteria	Test mode	Result	

Salt Spray Test.	1. NaCl concentration:.. 2. Air pressure:.. 3. PH value:.. 4. spray amount: .. 5. Temperature of brine test. Setting .. a. Laboratory temperature:.. b. Pressure tank temperature: 6. Time:..	40-60g/1kg 1.0±0.01kgf m <sup>2</sup> .. 6.5-7.2 .. 1.0-2.0ml/80c/h. ..	Steps: a) Set the salt spray testing machine to the relevant test conditions. b) Put the tested part into the salt spray testing machine for 24 hours. After the test, rinse with clean water, visually inspect the appearance of the tested part and conduct routine inspection.	↵ ↵ Acceptable ↵
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## 8. Antenna Properties Test ↵

Antenna separate  
test (Empty Test) ↵

## 9. Product

