



Specifications

Specification

client's name:

CUSTOMER:

Ruijie Networks Co., Ltd.

Customer part number:

CUSTOMER P/N:

Customer product name:

DESCRIPTION:

JieLei material number:

JL P/N:

C168-JL-6085

JieLei product name:

PART NO.

NDS-2.4G2-WX-21

Version:

Revision:

V1.0

approve	Review	prepared by
Frank	WenSen	Sean
2021.11.23	2021.11.23	2021.11.23

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Version description

date	Approval	version	description
2021-11-23		V1.0	first version



1. Product Performance

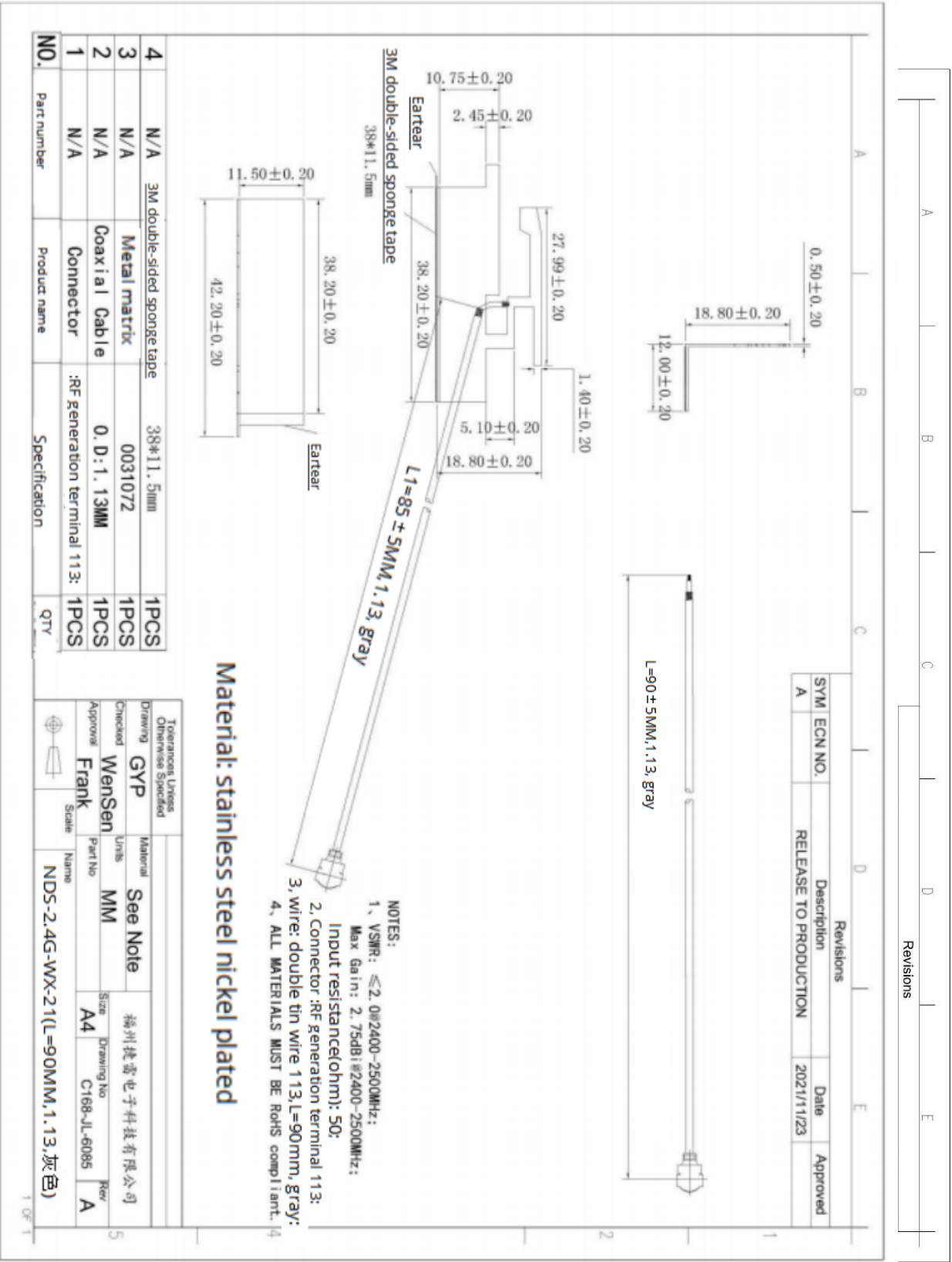
Electrical specifications/Electrical specifications	
Antenna type/Antenna type	2.4G antenna
Antenna number (see drawing) Frequency range (MHz)/Frequency range(MHz)	0031072
Voltage standing wave ratio/VSWR	2400~2500
input impedance (Ohm)/Impedance(Ohm)	ȳ2.0
Gain(dBi)/Peak Gain(dBi)	50
Mechanical specifications/Mechanical specifications	
Antenna size (mm) /Dimensions(mm)	42.2*18.8*12.0
Connector Type/Connector Type	RF generation terminal 113
Cable Type/Cable Type	1.13, L=90mm, gray
Operating Temperature (ȳ)/Operation Temperatureȳȳȳ	-20~65
Storage temperature (ȳ)/Storage Temperatureȳȳȳ	-20~85

2. Environmental Performance Test

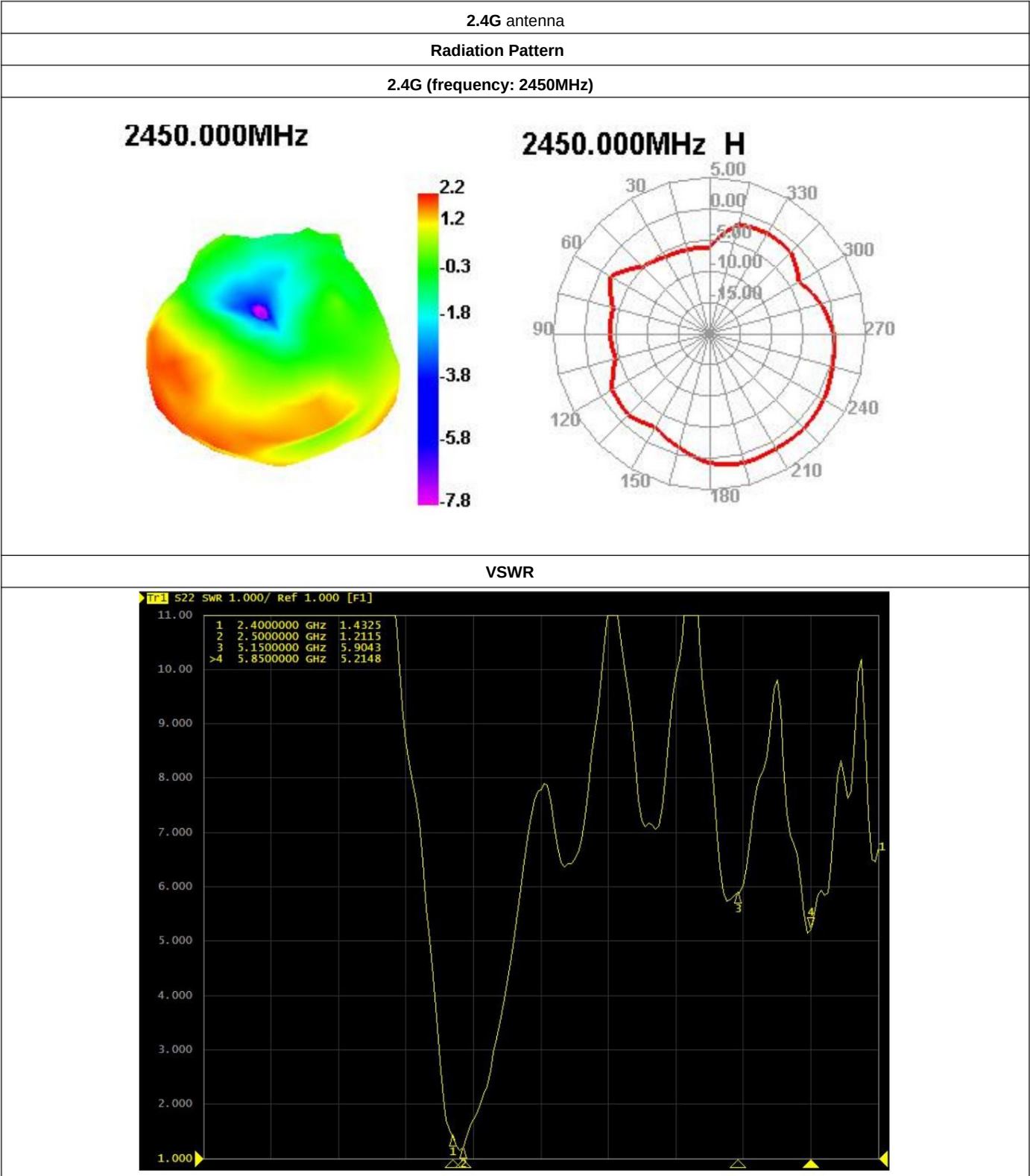
NO	Item	Test Condition	Test Condition	Specification requirementsRequirement 1.	in conclusion
1	Exterior Appearance	Visual inspection by eye Light:1.0 Lighting Lamp:200~300Lx Visual distance Space:0.3~0.6m	Visual by eye Light:1.0 Lighting Lamp:200~300Lx Visual distance Space:0.3~0.6m	There should be no obvious scars, dents, cracks or deformation on the surface of plastic parts that would affect use. Plastic part: smooth and flat surface without discolor, broken, crack distortion defects is acceptable 2. The surface of metal parts has no obvious mechanical damage and other defects. Metal part: No obvious mechanical damage and other defects on the surface 3. The surface of the circuit board (or flexible circuit board) has no dirt, damage, oxidation, no obvious mechanical damage and other defects, and the silk screen is clear. PCB (or FPCB): The surface is free of dirt, damage, oxidation, no obvious mechanical damage and other defects, screen printing clear. 4. The surface of the conductors is clean and has no defects such as damage. Wire:clearing surface without discolor,broken defects.	Pass Unsatisfied/Fail Not applicable/NA
2	Terminal fixing force /Terminal Retention Force	Fix the connector or load cell and apply the specified pulling force in the direction of the connector axis at a speed not greater than 25mm/min. Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing.	12NMIN		Pass Unsatisfied/Fail Not applicable/NA
3	Welding fixation force /Solder Retention Force	Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing. Refer to GB-T2423.17	15NMIN		Pass Unsatisfied/Fail Not applicable/NA
4	Salt spray resistance test /Salt spray test	specification, 5% sodium chloride (NaCl) solution; pH value 6.5-7.2; temperature 35℃, test time 24H. Refer to GB-T2423.17, NACL		After drying at room temperature, check the appearance. There is no obvious corrosion or other abnormal phenomena on the surface of the sample or as required by the drawing specifications. After drying at room temperature, check appearance, the sample surface has no obvious corrosion and other abnormal phenomena or	Pass Unsatisfied/Fail Not applicable/NA

		solution with 5% concentration, pH 6.5-7.2, temperature 35 °C, test time 24 hours.	according to the drawing specifications.	
5	High temperature test /High temperature test	Refer to GB-T2423.2 specification, temperature 70°C, test time 28 hours. Refer to GB-T2423.2, the temperature is 70 °C and the time is 28 hours.	After drying at room temperature, check the appearance to see if the sample has no deformation. Peeling, cracks, wrinkles, discoloration, fish scales. After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	Pass Unqualified/Fail Not applicable/NA
6	Low temperature test /Low temperature test	Refer to GB-T2423.1 specification, temperature -40°C, test time 28 hours. Refer to GB-T2423.1, the temperature is -40 °C for 28 hours.	After drying at room temperature, check the appearance to see if the sample has no deformation. Peeling, cracks, wrinkles, discoloration, fish scales. After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	Pass Unqualified/Fail Not applicable/NA
7	High temperature and high humidity test Try/High temperature and high humidity test	Refer to GB-T2423.3 specification, temperature 70°C, humidity 95%, test time 48 hours. Refer to GB-T2423.3 specification, temperature 70°C, humidity 95%, time 48H.	After drying at room temperature, check the appearance to see if the sample has no deformation. Peeling, cracks, wrinkles, discoloration, fish scales. After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	Pass Unqualified/Fail Not applicable/NA
8	Temperature shock test try /Temperature shock test	Refer to GB-T2423.3 specification, temperature -30°C, 1 hour, temperature 75°C, 1 hour, 22 cycles in total. Refer to GB-T2423.3 specification, temperature -30 °C, 1 hour, temperature 75°C, 1 hour, total 22 cycles.	After drying at room temperature, check the appearance to see if the sample has no deformation. Peeling, cracks, wrinkles, discoloration, fish scales. After drying at room temperature, check appearance, samples without deformation, stripping, cracks, wrinkles, different color, fish scale lines.	Pass Unqualified/Fail Not applicable/NA
9	Drop test /Drop test	One corner, three sides, six sides 1M high altitude Free fall. One corner, three edges, six sides, free fall at an altitude of 1M.	The electrical and mechanical properties are normal. Electrical and mechanical properties are normal.	Pass Unqualified/Fail Not applicable/NA
10	Simulated transportation vibration move	Tested according to ISTA standards. Testing according to ISTA standards	The electrical and mechanical properties are normal. Electrical and mechanical properties are normal.	Pass Unqualified/Fail Not applicable/NA

3. Mechanical Dimension Drawing



4.Sample Test Report





5.QC Engineering Table

Control type	Process flow	equipment	Focus of control		method			Person in charge	Control record	Exception handling
			NO	peculiarity	Specification requirement	Inspection method	Sampling plan	frequency		
Incoming material	Material reception		1	Incoming material inspection	Coming material check specification	According to inspection requirements	GBT2828.1-2003	Each batch of incoming materials	IQC	Incoming material inspection report
			2	specimen	According to product drawing	Test tool	On request	In necessity	ENGINEERING	Come to the department for trial production
	Material storage		3	Material storage	Warehouse Management System				Warehouse keeper	Incoming materials registration form
Forming process	Cut line	Wire cutting machine	4	Wire diameter, length, color	Refer to SOP	Visual measurement, scale weight	First piece	Progressive tense	LEADS	Production line self-inspection
							inspection		IPQC	IPQC inspection records
	Wire stripping	Threading machine	5	Stripping dimension	Refer to SOP	Weight scale	First piece	Progressive tense	LEADS	Equipment point check list
							inspection		IPQC	IPQC inspection records
	Kamitin	tin-pot	6	Tinning position, effect, tin furnace temperature	Refer to SOP	Visual, temperature meter	First piece	Progressive tense	LEADS	Tin furnace temperature point check table
							inspection		IPQC	IPQC inspection records
	End cutting	Terminal machine	7	Shape appearance, tension	Refer to SOP, generation end tension≥12N, third generation end tension≥8N	Visual, tension meter	First piece	Each batch	LEADS	Terminal tension recording
							inspection		IPQC	IPQC inspection records
	weld	Welding stand	8	Welding effect, temperature	The welding position is correct, uniform and full, no pull point, no false welding, Temperature parameter SOP	Visual, tension meter	100%	self-inspection	operator	Spot check of welding station temperature
							inspection		IPQC	IPQC inspection records
inspect	Electrical testing	Net division	10	S11、VSR	Refer to SOP	Mesh detection	100%	self-inspection	operator	Equipment point check list
							inspection		IPQC	IPQC inspection records
	Look at the appearance		11	Appearance, dimension and length of finished product	Refer to SOP	Visual measurement, ruler measurement	100%	self-inspection	operator	Production line self-inspection
							inspection		IPQC	IPQC inspection records
Package and ship	package	Sealing machine, binding	12	Packaging bag, label, foam, outer box	Refer to SOP	Visual inspection, weighing	100%	self-inspection	operator	Production line self-inspection
	Outgoing inspection	Correlative instrument	13	Electrical performance, appearance, packaging	Outgoing inspection specification	According to shipment inspection requirements	GBT2828.1-2003	Each batch	OQC	Production line self-inspection
	Deliver goods		14	Shipping, express bill	Safe, smooth, record			Each batch	shipment	

