

Document code: FRKF-0007 Version: 1.1

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-6064
JieLei product name:	
PART NOÿ	NDS-5G-WX-21
Version:	
Revision:	V1.1

approve	Review	prepared by
Frank	WenSen	Sean
2021.11.24	2021.11.24	2021.11.24

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Version description

date	Approval ve	rsion descrip	tion
2021-11-24		V1.0 line len	gth changed to L=50mm
2021-08-19		V1.0 first ve	sion

1. Product Performance

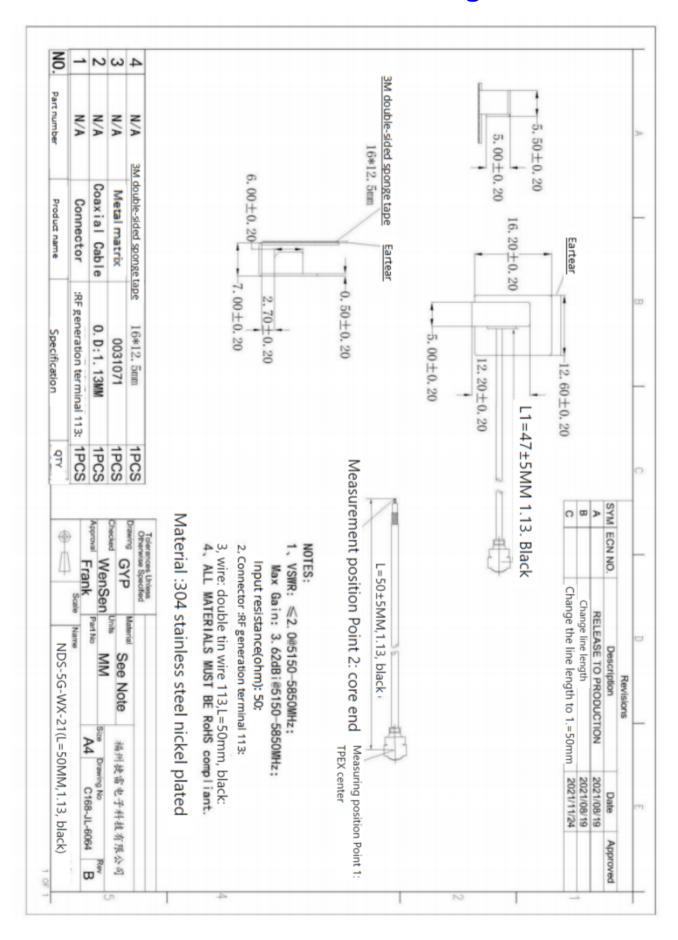
Electrical specifications/Electrical specifications						
Antenna type/Antenna type	5G antenna					
Antenna number (see	0031071					
drawing) Frequency range (MHz)/Freque	5150~5850					
Voltage standing wave ratio/VSWR	ÿ2.0					
input impedance (Ohm)/Impedance(Ohm)	50					
Gain(dBi)/Peak Gain(dBi)	3.62					
	Mechanical specifications/Mechanical specifications					
Antenna size (mm) /Dimensions(mm)	16.2*12.6*7.0					
Connector Type/Connector Type	RF generation terminal 113					
Cable Type/Cable Type	1.13, L=50mm, black					
Operating Temperature (ÿ)/Operation	-20~65					
Temperatureÿÿÿ						
Storage temperature (ÿ)/Storage	-20~85					
Temperatureÿÿÿ						

2. Environmental Performance Test

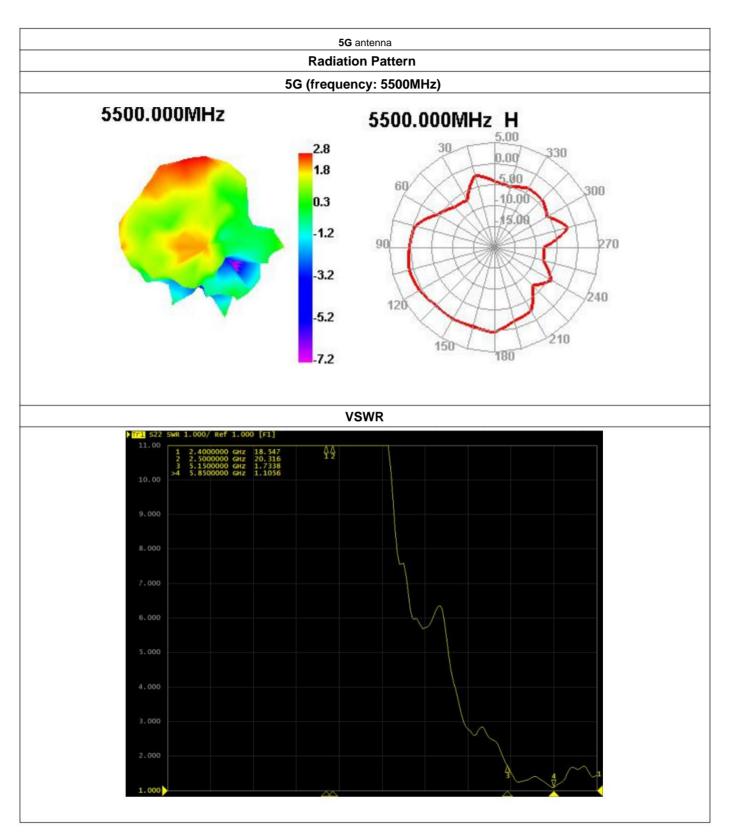
NO Ite	m Item Test Conditi	on Test Condition	Specification requirementsRequirement 1.	in conclusion
1	Exterior Appearance	Visual inspectionVisual by eye Light:ÿ1.0 Lighting Lamp:200~300Lx Visual distance Space:0.3~0.6m	Specification requirementsRequirement 1. There should be no obvious scars, dents, 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.	ÿPass ÿ Unsatisfied/Fail ÿ 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/Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing.	nin. 12NMIN _	ÿPass ÿ Unsatisfied/Fail ÿ 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 _	ÿPass ÿ Unsatisfied/Fail ÿ Not applicable/NA
4	Salt spray resistance test /Salt spray test	specification, 5% sodium chloride (NaCl) solution; pH value 6.5-7.2; temperature 35ÿ, 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	ÿPass ÿ Unsatisfied/Fail ÿ Not applicable/NA

		solution with 5%	according to the drawing specifications.	
		concentration, pH 6.5-7.2, temperature 35 ÿ, test time 24 hours.		
5	High temperature test /High temperatur e test	Refer to GB-T2423.2 specification, temperature 70 \(\text{y}, \text{ time 28 hours.} \) Refer to GB-T2423.2, the temperature is 70 \(\text{y} \) 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.	ÿPass ÿUnqualified/Fail ÿNot applicable/NA
6	Low temperature test /Low temperatur e test	Refer to GB-T2423.1 specification, temperature -40 y, test time 28 hours. Refer to GB-T2423.1, the temperature is-40 y 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.	ÿPass ÿUnqualified/Fail ÿNot applicable/NA
7	Try/High temperatur e and high humidity test	Refer to GB-T2423.3 specification, temperature 70ÿ, humidity 95%, test time 48 hours. Refer to GB-T2423.3 specification, temperature 70ÿ, 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.	ÿPass ÿUnqualified/Fail ÿNot applicable/NA
8	Temperature shock test try /Temperatu re shock test	Refer to GB-T2423.3 specification, temperature -30ÿ, 1 hour, temperature 75ÿ, 1 hour, 22 cycles in total. Refer to GB-T2423.3 specification, temperature-30 ÿ, 1 hour, temperature 75ÿ, 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.	ÿPass ÿUnqualified/Fail ÿNot 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. normal.	ÿPass ÿUnqualified/Fail ÿNot applicable/NA
10	Simulated transportation vibration	Tested according to ISTA standards. Testing according to ISTA standards	The electrical and mechanical properties are normal. Electrical and mechanical properties are normal.	ÿPass ÿUnqualified/Fail ÿNot applicable/NA

3. Mechanical Dimension Drawing



4.Sample Test Report



5.QC Engineering Table

Frank I	Process flow	equipment	Focus of control			method			Dannes in		
Control			NO	peculiarity	Specification requirement	Inspection method	Sampling plan	frequency	Person in charge	Control record	Exception handling
	Material reception		1	Incoming material inspection	Coming material check specification	According to inspection requirements	GBT2828.1-2003	Each batch of incoming materials	ıqc	Incoming material inspection report	Return, special purchase, SCAR
Incoming material			2	specimen	According to product drawing	Test tool	On request	In necessity	ENGINEERI NG	Come to the department for trial production	The second secon
	Material storage		3	Material storage	Warehouse Management System				Warehouse keeper	Incoming materials registration form	Disposal or return to supplier
	Cut line	Wire cutting	4	Wire diameter, length,	Refer to SOP	Visual measurement,	First piece	Progressive tense	LEADS	Production line self- inspection	Operator adjustment
	Cut mie	machine	4	color	Neier to 30P	scale weight	insp	pection	IPQC	IPQC inspection records	Notify production line adjustment and exception handling report
1		The same of the same					First piece	Progressive tense	LEADS	Equipment point check list	Operator adjustment
	Wire stripping	Threading machine	5	Stripping dimension	Refer to SOP	Weight scale	insp	pection	IPQC	IPQC inspection records	Notify production line adjustment and exception handling report
				Tinning position, effect, tin furnace temperature		Visual,	First piece	Progressive tense	LEADS	Tin furnace temperature point check table	Operator adjustment
Forming	Kamitin	tin-pot	6			temperature meter	inspection		IPQC	IPQC inspection records	Notify production line adjustment and exception handling report
process					Refer to SOP, generation end		First piece	Each batch	LEADS	Terminal tension recording	Notify machine repair adjustment
	End cutting	Terminal machine	7	Shape appearance, tension	tension≥12N, third generation end tension≥8N	Visual, tension meter	insp	pection	IPQC	IPQC inspection records	Notify production line adjustment and exception handling report
	weld We	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	Operator adjustment
							insp	pection	IPQC	IPQC inspection records	Notify production line adjustment and exception handling report
	Sticking auxiliary material		9	Copper, aluminum foil, conductive cloth, glue	Stick position correct, firm, size reference BZSOP	Visual inspection	100%	self-inspection	operator	Production line self- inspection	Operator adjustment
							insp	pection	IPQC	IPQC inspection records	Notify production line adjustment and exception handling report
		1111					100%	self-inspection	operator	Equipment point check list	Operator adjustment
inspect	Electrical testing	Net division	10	S11 VSR	Refer to SOP	Mesh detection	inspection		IPQC	IPQC inspection records	Notify production line adjustment and exception handling report
	Look at the		11	Appearance, dimension and length of finished	Refer to SOP	Visual measurement,	100%	self-inspection	operator	Production line self- inspection	Operator adjustment
	appearance		1,0	product	neiei to sor	ruler measurement	insp	pection	IPQC	IPQC inspection records	Notify production line adjustment and exception handling report
	package	Sealing machine,	12	Packaging bag, label, foam, outer box	Refer to SOP	Visual inspection, weighing	100%	self-inspection	operator	Production line self- inspection	Operator adjustment
	- 11	binding	3	outer DOX	to four plans and the College of State of College of Co	weigining	insp	pection	IPQC	IPQC inspection records	
Package and ship	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	
-											

6.Packing Specification

