

Specifications

Specification

client's name: CUSTOMER:	Shenzhen Gongjin Electronics Co., Ltd.
Customer part number: CUSTOMER P/N:	
Customer product name: DESCRIPTION:	
JieLei material number: JL P/N:	C168-JL-6169
JieLei product name: PART NOÿ	NDS-5.8G antenna
Version: Revision:	

		《》电丁科》
approve	Review	prepared by
Frank	Wensen	Sean Sean
2022.06.02	2022.06.02	2022.06.02
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Version description

date	Approval v	ersion desc	ription
2022-06-02		V1.0 first v	ersion

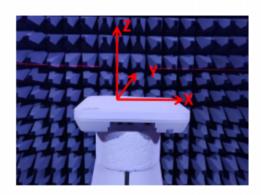
1. Product Performance

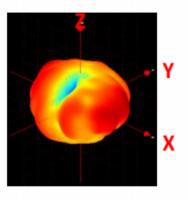
Electrical specifications/Electrical specifications						
Antenna type/Antenna type 5.8G antenna						
Antenna number (see	0031071					
drawing) Frequency range (MHz)/Frequency range(MHz)	y 5150~5850					
Voltage standing wave ratio/VSWR	ÿ2.0@5150-5850MHz					
input impedance (Ohm)/Impedance(Ohm)	50					
Gain(dBi)/Peak Gain(dBi)	4.17@5150-5850MHz					
	Mechanical specifications/Mechanical specifications					
Antenna size (mm) /Dimensions(mm)	16.2*12.6*7					
Connector Type/Connector Type	MHF RF Generation					
Cable Type/Cable Type	1.13, L=163mm, black double tin wire					
Operating Temperature (ÿ)/Operation Temperatureÿÿÿ	-40~70					
Storage temperature (ÿ)/Storage Temperatureÿÿÿ	-20~85					

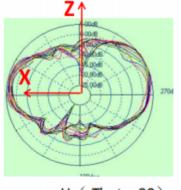
2D/3D Radiation pattern 5G-ANT1

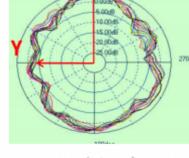


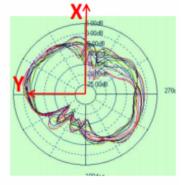












H (Theta=90)

E1 (Phi=0)

E2 (Phi=90)

2. Environmental Performance Test

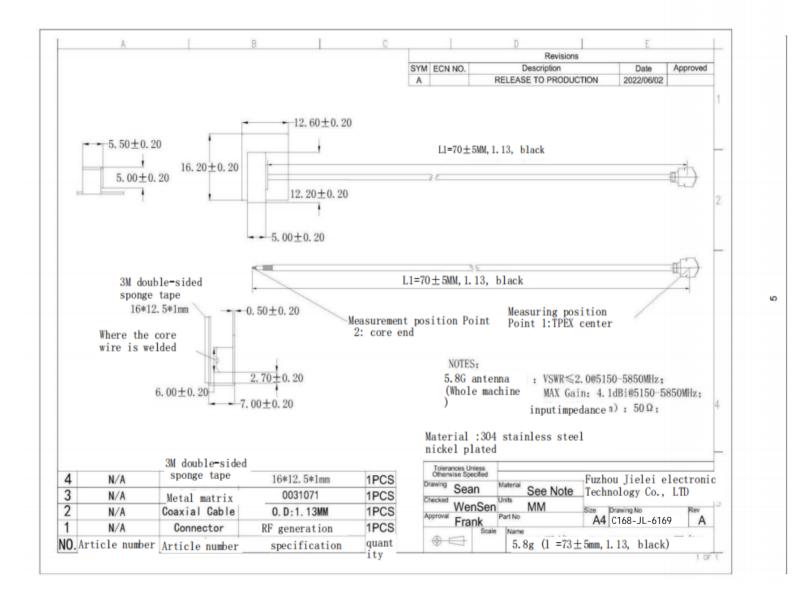
NO Ite	m Item Test Conditi	on Test Condition	Specification requirementsRequirement 1.	in conclusion
1	Exterior Appearance	Visual inspectionVisual by eye Light:ÿ1.0 Lighting Lamp:200~300Lx Visual distance Space:0.3~0.6m	There should be no obvious scars, dents, cracks or deformation on the surface of plastic 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.	min. 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	10NMIN _	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 48H. 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 energifications	
		concentration, pH 6.5-7.2, temperature 35 ÿ, test time 48 hours.	according to the drawing specifications.	
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 -40ÿ, test time 28 hours. Refer to GB-T2423.1, the temperature is-40 ÿ 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 16 hours. Refer to GB-T2423.3 specification, temperature 70ÿ, humidity 95%, time 16H.	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, 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 move	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



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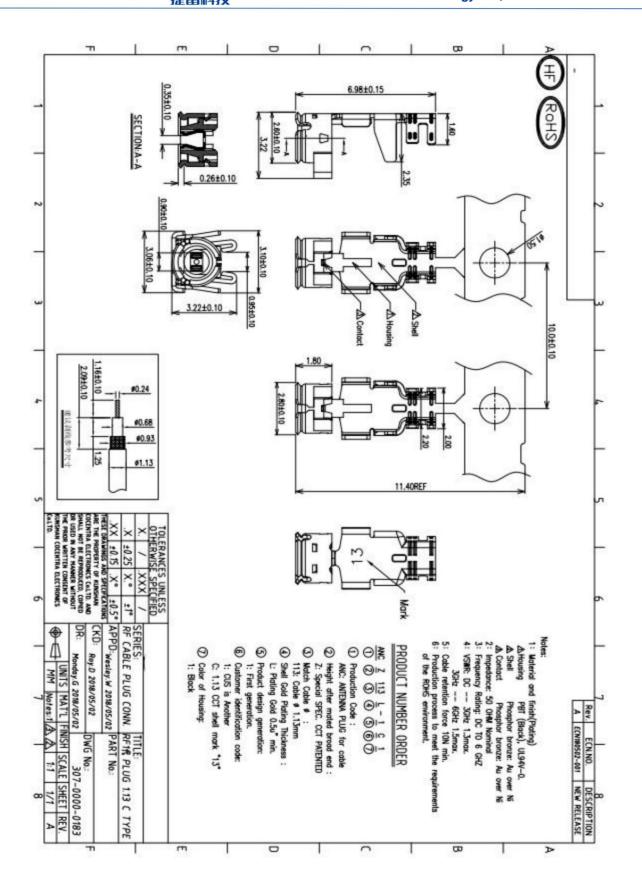
3. Mechanical Dimension



2

产品规格 Product Type			RF1	13/50 双锡线	
结构图 Structure Drawing				1	
结构特性 Structure Charact	teristics				
结构 Structure	项目 Item			标准值 Standard \	/alue
+0.4	材质 Material		镀锡铜线 Tinner	d Copper Wire	
内导体	结构 Construction(mm)		7/0.08		
Inner Conductor	标称外径 Nom.Dia(mm)		0.24±0.02		
绝缘层	材质 Material		聚全氟乙丙烯 FE	Р	
Insulation	标称外径 Nom.Dia(mm)		0.70±0.02		
454	材质 Material		镀锡铜线 Tinned	d Copper Wire	16*4/0.05
外导体 Outer Senduster	标称外径 Nom.Dia(mm)		0.92±0.05		
Outer Conductor	编织覆盖率 Coverage Ratio(%)	90±5		
护套	材质 Material		聚全氟乙丙烯FE	P	
Jacket	标称外径 Nom.Dia(mm)		1.13±0.05		
电气性能 Electrical Charac	eteristics				lu l
TO:	标准值		T	频率	标准值
项目Item	Standard Value	项目 Item		Frequency	Standard Value
且抗 Impedanc (Ω)	50±2			1GHz	2.20
电容 Capacitance(pF/m)	98			2GHz	3.10
速率 Velocity(%)	70		衰减	3GHz	3.80
主波比 VSWR	≤1,30@ DC-6GHz	Atter	uation@20°C	4GHz	4.40
最大工作电压 Max.Operating Voltage(V)	1000		(dB/m)	5GHz	4.90
最大工作频率 Max.Operating Frequency(GHz)	6			6GHz	5.40
可靠性 Dependability					
慢小弯曲半径(单次)Min.Bending Radius	s/Single		mm	5	
最小夸曲半径(重复)Min.Bending Rad	lius/Repeated		mm	10)
工作温度范围 Operating Temperature			℃	-55-+	200
包装 Packing					
包装方式 Packing Mode			纸盘 Papery Re	el	
包装长度 The Length of Each Reel(m)			1000		
導盘段数 The Joints of Each Reel	≤5				
最小段长 Min. Segment Length(m)		≥10			
使用提示 Trips for Use					
字储环境 Storage Environment	Temperature: below 30°	°C,	humidity :20-	65%	
最佳保存周期 The Best Save Cycle	After 2 months, the t			C 1/2/22 L 1/2/2015	er 2 months
加工温度 Processing Temperature	It can withstand the h		of Lotter distribution 100	V S Brook S World Co. Ale all	elo caraciones
铁氟龙收缩 Teflon Shrink	Inherent properties of				
户套窜动 Jacket Taaverse	the processing length				

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4. BOM

		List of ke	y raw materia	ls for the	built-in antenna	
serial number 1	Key raw material Wire rod	Raw material material Ditin copper	Type of raw material	Full name of manufactu rer	CQC and UL certification number	remark
2	metal	Nickel- plated iron	spcc	JA	\	
3	terminal	copper	C5191	СМ	1	

 Fill in "NA" for raw materials that do not contain;
 If there are multiple suppliers of raw materials, they need to be reported, and only 2 suppliers can be reported (and changes are not allowed within 2 years).

³⁾ It is necessary to ensure that the antennas supplied in bulk are consistent with the requirements of the sample and the acknowledgement letter, and the raw material specifications must meet the above requirements.