

SPECIFICATION FOR APPROVAL

(CUSTOMER)	Guangdong nine United Technology Co., LTD
(MODEL NO)	
(PART NO)	
(MODEL NO)	5G green PCB built-in antenna 1.13 gray L=150MM
(PART NO)	YJC-6N150-G13
(MPQ)	100PCS
(BRAND)	ҮЈС
(DATE)	2023-04-24
(QUANTITY)	15PCS

APPROVED SIGNATURES			APPROVED SIGNATURES			
PREPARED BY	CHECKED BY	APPROVED BY	TESTED BY CHECKED BY APPROVED			
	日本					

Note: The sample shall be delivered in one copy, which shall be signed by the supplier manually and stamped with the company's official seal. The specification shall provide one paper file and one electronic file.

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Shenzhen Yingjia Chuang electronic technology Co., LTD

http://www.szsyjc.com



CUSTOMER NAME							
CUSTOMER P/N							
PART NAME	5G green PCB built-in ant	enna 1.13 gray L=150mm					
P/N	YJC-6N15	50-G13					
APPROVAL REV.	A1						
DELIVERY DATE	April 24	April 24, 2023					
PREPARED BY	Yin Fe	Yin Feijie					
CHECKED BY	Fang We	nfeng					
APPROVED BY	Fang We	nfeng					
	Customer Approved						
Prepared By	Checked By Approved By						

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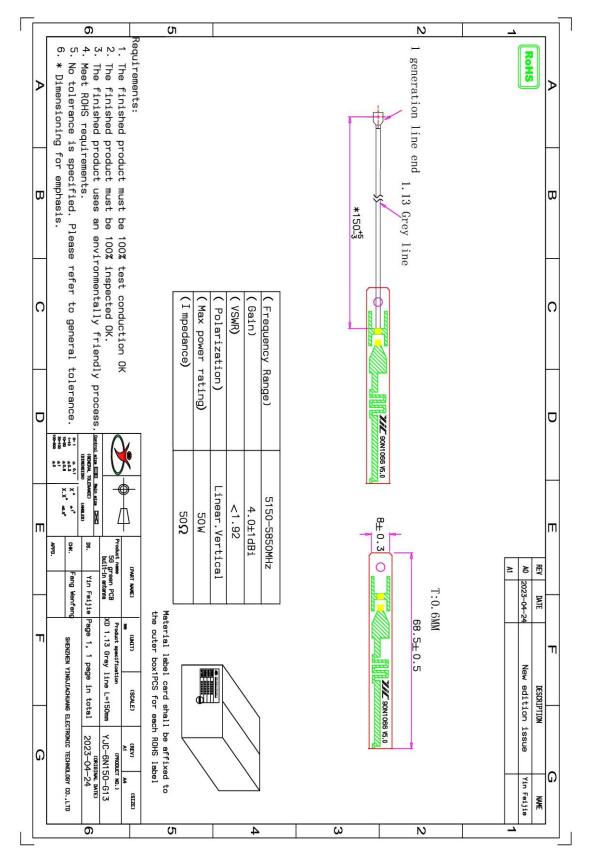


Resumer:

Version	Changes and reasons	date	publish
A/0	Issued	April 24, 2023	
A/1	Change the PCB board to optimize the	April 24, 2023	
	commissioning		



Product plan:



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Antenna technical parameters and environmental testing:

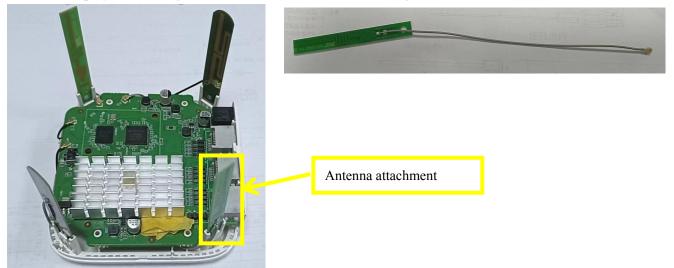
Electrical technical parameter						
Electrical Specif	ications	Mechanical Specif	ications			
Frequency Range	5150-5850MHz	Cable Color	Gray			
VSWR	<1.92	Input connector	XD			
Input Impedance	50 Ω	Cable length	150mm			
Direction	A11	Working Temperature	-20°C [~] +70°C			
Gain	5.0 ± 1 dBi	Working Humidity	20%~80%			

Environmental performance test:

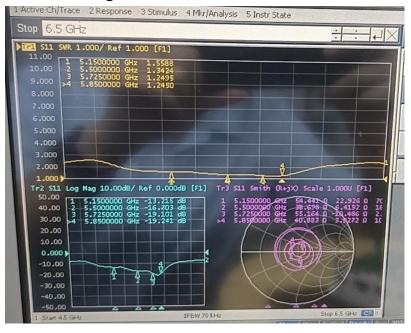
Project	Test condition	Standard			
Storage Conditions	1. Temperature is -30 °C $+80$ °C				
High and low temperature test	High and low High and low High and low				
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 °C. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and meet the performance of mechinery and electric.			
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical performace is normal			
Fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical performace is normal			



Antenna physical diagram and attached location diagram:



Antenna performance test diagram:

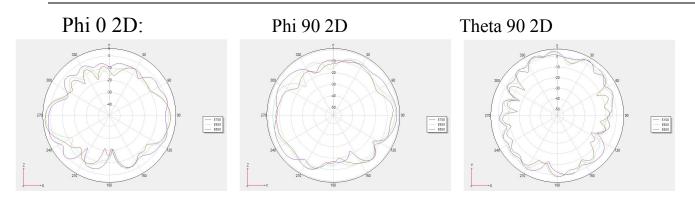


2D and 3D test data (5G):

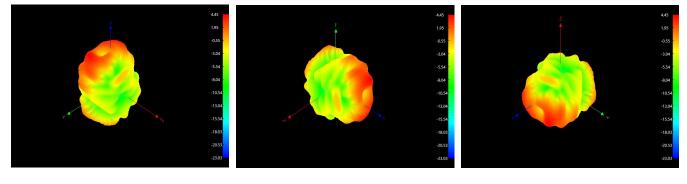
Frequency	Efficiency (%)	Gain. (dBi)
5150MHz	49.79	4.45
5250MHz	47.41	4.21
5350MHz	48.31	4.44
5450MHz	48.84	4.61
5550MHz	48.05	4.83
5650MHz	47.48	4.5
5750MHz	53.57	5.24
5850MHz	51.77	5.13



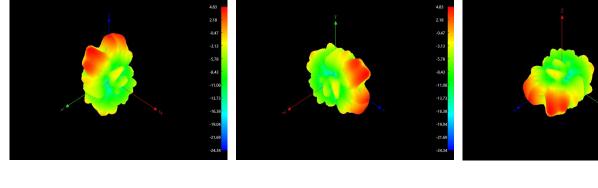
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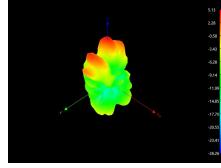
3D 5150:

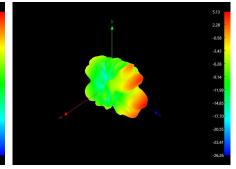


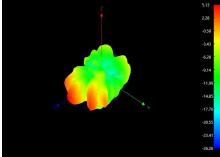
3D 5550:



3D 5850:









OTA active test data statistics:

ltem	Measurement	Band	Channel	Frequency	Total	
1	TRP	WIFI_A (54M)	36	5180	17.45	
2	TRP	WIFI_A (54M)	48	5240	17.03	
3	TRP	WIFI_A (54M)	165	5825	17.4	
4	TIS(EIRP)	WIFI_A (54M)	36	5180	-70.11	
5	TIS(EIRP)	WIFI_A (54M)	48	5240	-70.96	
6	TIS(EIRP)	WIFI_A (54M)	165	5825	-70.91	
7	TRP	WIFI_AX_UNII (135M)	36	5180	16.19	
8	TRP	WIFI_AX_UNII (135M)	48	5240	16.32	
9	TRP	WIFI_AX_UNII (135M)	165	5825	17.12	
10	TIS(EIRP)	WIFI_AX_UNII (135M)	36	5180	-55.37	
11	TIS(EIRP)	WIFI_AX_UNII (135M)	48	5240	-56.85	
12	TIS(EIRP)	WIFI_AX_UNII (135M)	165	5825	-54.68	



	Material RoHS conformity declaration form										
production en (RoHS directi	This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU) About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as										
		is as follows:	1415, 44	aniiidiy maa	orrarb a	na addi ti		i in the p	51000001	JII proce	bb buon ub
Component Material ICP report # Test Test Date						Content	of harmful	substances	s (ppm)		PASS?
/Part Name	Composition		Org.	Cd	Pb	Hg	Cr 6+	PBB	PBDE	PASS	
PCB	РСВ	CANEC2221844502	SGS	22/10/20	ND	12	ND	ND	ND	ND	PASS
Wire rod	Teflon coaxial cable	SZXEC2202766604	SGS	22/08/18	ND	ND	ND	ND	ND	ND	PASS
Eco-friendly tin wire	Eco-friend ly tin wire	SHAEC2206174502	SGS	22/06/13	ND	181	ND	ND	ND	ND	PASS
	copper	CANEC2301145810	SGS	23/02/08	ND	5	ND	ND	ND	ND	PASS
terminal	Gold coating	A2220404860101001C	CTI	22/09/17	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	A2230035037101002E	SGS	23/02/06	ND	ND	ND	ND	ND	ND	PASS