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SPECIFICATION FOR APPROVAL

(CUSTOMER)	Guangdong nine United Technology Co., LTD
(MODEL NO)	
(PART NO)	
(MODEL NO)	2.4G black PCB internal antenna 1.13 Black L=135MM
(PART NO)	YJC-6N135-B15
(MPQ)	100PCS
(BRAND)	YJC
(DATE)	2023-04-24
(QUANTITY)	15PCS

APPROVED SIGNATURES		APPROVED SIGNATURES					
PREPARED BY	CHECKED BY	APPROVED BY	TESTED BY CHECKED BY APPROVED BY				
	1 1 1	工程专用草	THE ALL				

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.

Add: Building C, Guangming Valley, Hongyu, No. 11, Shiwei Community, Ma Tian Ban, Guangming District, Shenzhen

Hangzhou Office: 212, Building B, Dahua Jianghong International Innovation Park,

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APPROVAL SHEET

CUSTOMER NAME						
CUSTOMER P/N						
PART NAME	2.4G black PCB internal an	ntenna 1.13 Black L=90mm				
P/ N	YJC-6N13	35-B15				
APPROVAL REV.	A1					
DELIVERY DATE	April 24, 2023					
PREPARED BY	Yin Fe	ijie				
CHECKED BY	Fang Wenfeng					
APPROVED BY	上柱マ川芋 Fang We	nfeng				
	Customer Approved					
Prepared By	Checked By	Approved By				

Address: Building C, Hongyu Guangming Valley, No. 11, Youma Gang Road, Ma Tian Street, Guangming District, ShenzhenDongguan Branch: Yingjiachuang Industrial Park, No. 2 Yinhe 3rd Road, Shishuikou, Qiaotou Town, Dongguan CityHangzhou Office: 212, Building B, Dahua Jianghong International Innovation Park, 369 Internet of Things Street, Binjiang District, HangzhouMianyang Office: No. 4F-34 Wanxiang High-tech International, No. 35 Mianxing East Road, Mianyang High-tech Zone, Sichuan

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Catalogue

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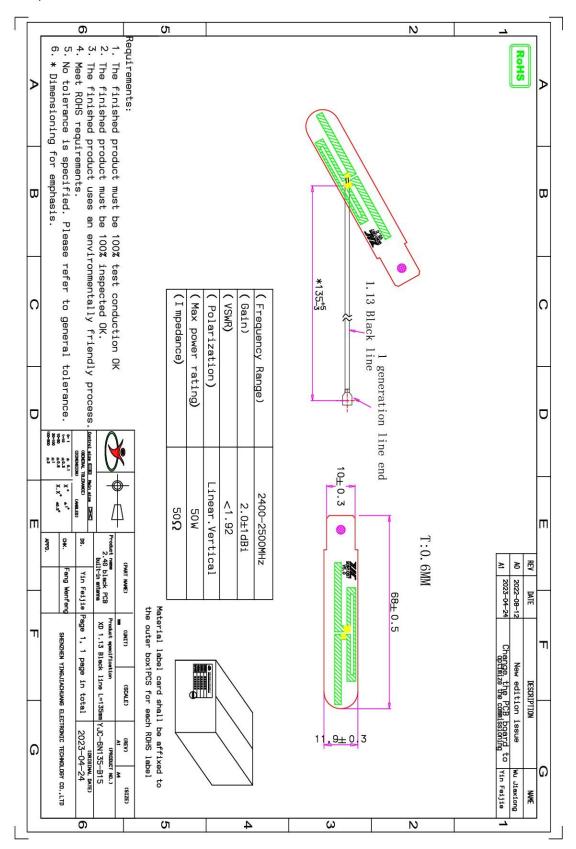
Resumer:

Version	Changes and reasons	date	publish
A/0	Initial release	August 12th, 2022	
A/1	Change the PCB board to optimize the	April 24, 2023	
	commissioning		



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Product plan:





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Antenna technical parameters and environmental testing:

Electrical technical parameter						
Electrical Specifications Mechanical Specifications						
Frequency Range	2400-2500MHz	Cable Color	Black			
VSWR	<1.92	Input connector	XD			
Input Impedance	50 Ω	Cable length	135mm			
Direction	A11	Working Temperature	-20°C [~] +70°C			
Gain	2.0±1dBi	Working Humidity	20%~80%			

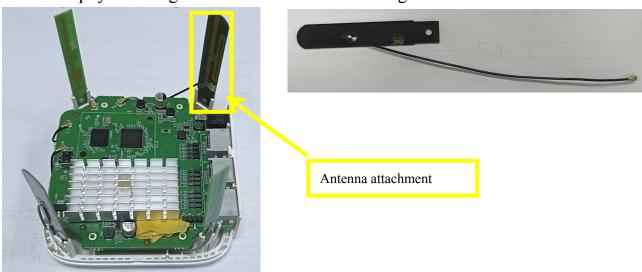
Environmental performance test:

Project	Test condition	Standard			
Storage Conditions	11. Temperature is -30° C $+80^{\circ}$ C				
High and low temperature test	High and low Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance				
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: $40 ^{\circ}$ 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			

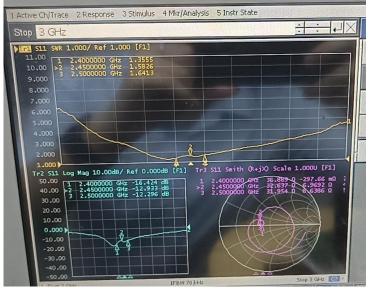


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Antenna physical diagram and attached location diagram:



Antenna performance test diagram:

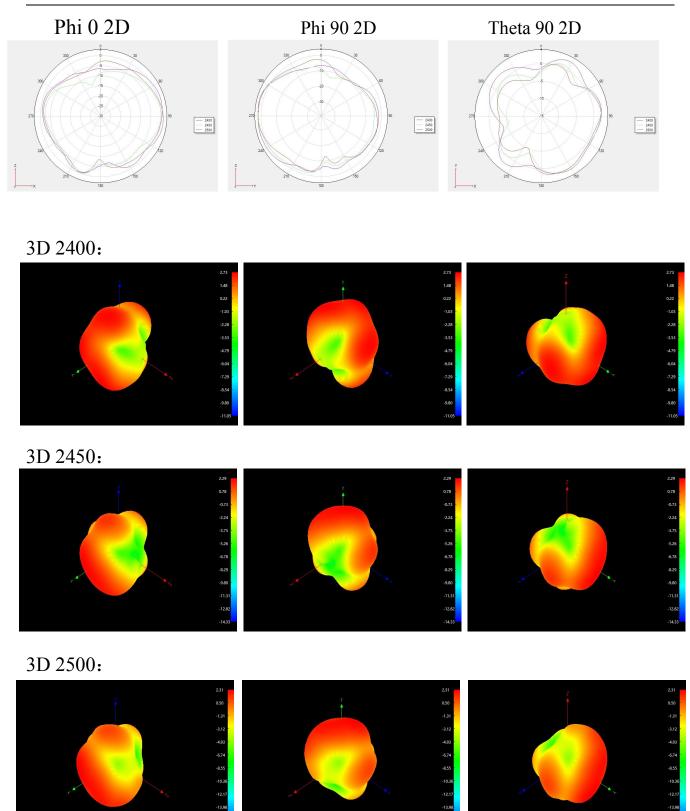


2D and 3D test data (2.4G):

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	66.22	2.73
2410MHz	65.01	2.7
2420MHz	67.76	2.42
2430MHz	62.81	2.9
2440MHz	61.24	2.09
2450MHz	62.57	2.29
2460MHz	58.21	2.18
2470MHz	58.88	2.24
2480MHz	57.94	2.99
2490MHz	59.83	2.01
2500MHz	58.95	2.31



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OTA active test data statistics:

Item	Measurement	Band	Channel	Frequency	Total
1	TRP	WIFI_G (54M)	1	2412	17.13
2	TRP	WIFI_G (54M)	6	2437	17.15
3	TRP	WIFI_G (54M)	11	2462	17.58
4	TIS(EIRP)	WIFI_G (54M)	1	2412	-70.19
5	TIS(EIRP)	WIFI_G (54M)	6	2437	-70.8
6	TIS(EIRP)	WIFI_G (54M)	11	2462	-71.4
7	TRP	WIFI_AX_ISM (135M)	1	2412	16.4
8	TRP	WIFI_AX_ISM (135M)	6	2437	16.32
9	TRP	WIFI_AX_ISM (135M)	11	2462	16.1
10	TIS(EIRP)	WIFI_AX_ISM (135M)	1	2412	-51.57
11	TIS(EIRP)	WIFI_AX_ISM (135M)	6	2437	-51.45
12	TIS(EIRP)	WIFI_AX_ISM (135M)	11	2462	-51.13



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Material RoHS conformity declaration form

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 composition of the report is as follows:

Component	ICP report #	Test	Test Date		Content	Content of harmful substances (ppm)				PASS?	
/Part Name		Org.	Test Date	Cd	Pb	Hg	Cr 6+	PBB	PBDE	PASS	
PCB	PCB	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