



Approval Sheet

CUSTOMER NAME Customer Name	Qiwang	
CUSTOMER P/N: Customer Part Number		
PART NAME	2.4G black FPC with built-in antenna; 0.81 mm gray wire, length = 40 mm	
P/N P / N	YJC-6N040-G20	
APPROVAL REV. Order of the edition	A0	
DELIVERY DATE: Sample delivery date	February 26, 2026	
Prepared by the organizer	Yin Feijie	
Checked by: Audit	Fang Wenfeng	
APPROVED BY: Approval	Shawhan	
Customer Approved Customer Acknowledgment		
Prepared by the organizer	-checked by: Reviewer	Approved by: Approval

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curriculum VITAC :

Edition	Change Details and Reasons	Date	Release
A0	First Edition Release	February 26,2026	



Antenna Plan View:

A		B		C		D		E		F		G	
1		2		3		4		5		6		7	
RoHS													
REV		DATE		DESCRIPTION		NAME							
A0		2026-02-26		新版发行		殷飞杰							
A1													
1													
2													
3													
4													
5													
6													
A													
B													
C													
D													
E													
F													
G													

0.81灰色线

*40⁺⁵₋₃

2代线端

端子开口方向如图所示

18.00±0.30

13.30±0.30

15.20±0.30

撕口位

频率范围(Frequency Range)

增益 (Gain)

电压驻波比(VSWR)

极化 (Polarization)

最大功率(Max power rating)

特性阻抗 (Impedance)

2400-2500MHz

1dBi

<3.0

Linear, Vertical

10W

50Ω

要求: 1. 成品须100%测试导通OK.

2. 成品须100%全检OK.

3. 采用环保制程, 成品

4. 符合ROHS要求.

5. 未注公差请以一般公差为准.

6. *为重点标注尺寸.

物料名称 (PART NAME)

规格 (SPEC)

产地 (ORIGIN)

数量 (QTY)

尺寸 (SIZE)

2.4G 垂直FPC内置天线

XD-2 0.81灰色线(总长11±0.04)

YJC-GN040-620

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2026-02-26

深圳市英佳创电子科技有限公司

SHENZHEN YINGJIACHUANG ELECTRONIC CO.,LTD



Antenna Technical Specifications and Environmental Testing:

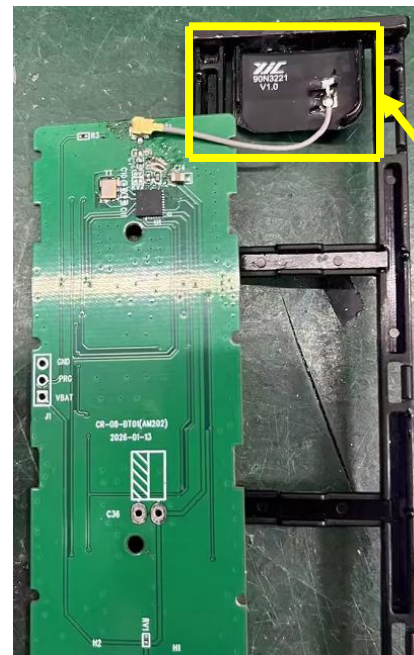
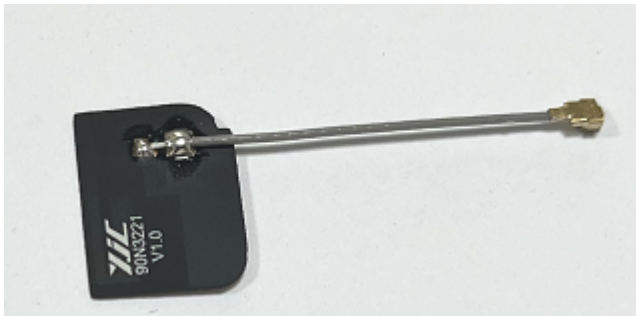
Electrical Technical Parameters			
Electrical Performance Parameters		Electrical Specifications	
Frequency range	2400-2500MHz	Frequency Range	2400-2500MHz
Voltage standing-wave ratio	<3.0	VSWR	<3.0
Input impedance	50 Ω	Input Impedance	50 Ω
Direction	Omnidirectional	Direction	All
Gain	1.04dBi	Gain	1.04dBi
Mechanical Indicators		Mechanical Specifications	
Wire Color	Gray	Wire Color	Grey
Interface Format	XD-1	Input connector	XD-1
Wire Length	40MM	Wire Length	40MM
Working temperature	-20°C~+70°C	Working Temperature	-20°C~+70°C
Working Humidity	20%~80%	Working Humidity	20%~80%

Environmental Performance Testing:

Project	Test condition	Specifications
Storage Environment	Test temperature, humidity, and air pressure as follows unless otherwise specified: 1. Temperature range: -20°C to +70°C 2. Relative humidity ranges from 45% to 85%. 3. The air pressure ranges from 86 kPa to 106 kPa.	The electrical mechanical performance is normal.
Low-temperature storage test	Temperature: -30°C $\pm$ 2°C; Storage time: 48 hours	The electrical mechanical performance is normal.
High Temperature Storage Test	Temperature: +80°C $\pm$ 2°C; Storage time: 48 hours	The electrical mechanical performance is normal.
Simulation of Transportation Vibration Testing	Test speed: 150 RPM; Test duration: 95 minutes;	The electrical mechanical performance is normal.
Fall-down test	The object was allowed to fall freely three times from a height of 1 meter along mutually perpendicular axes.	The electrical mechanical performance is normal.

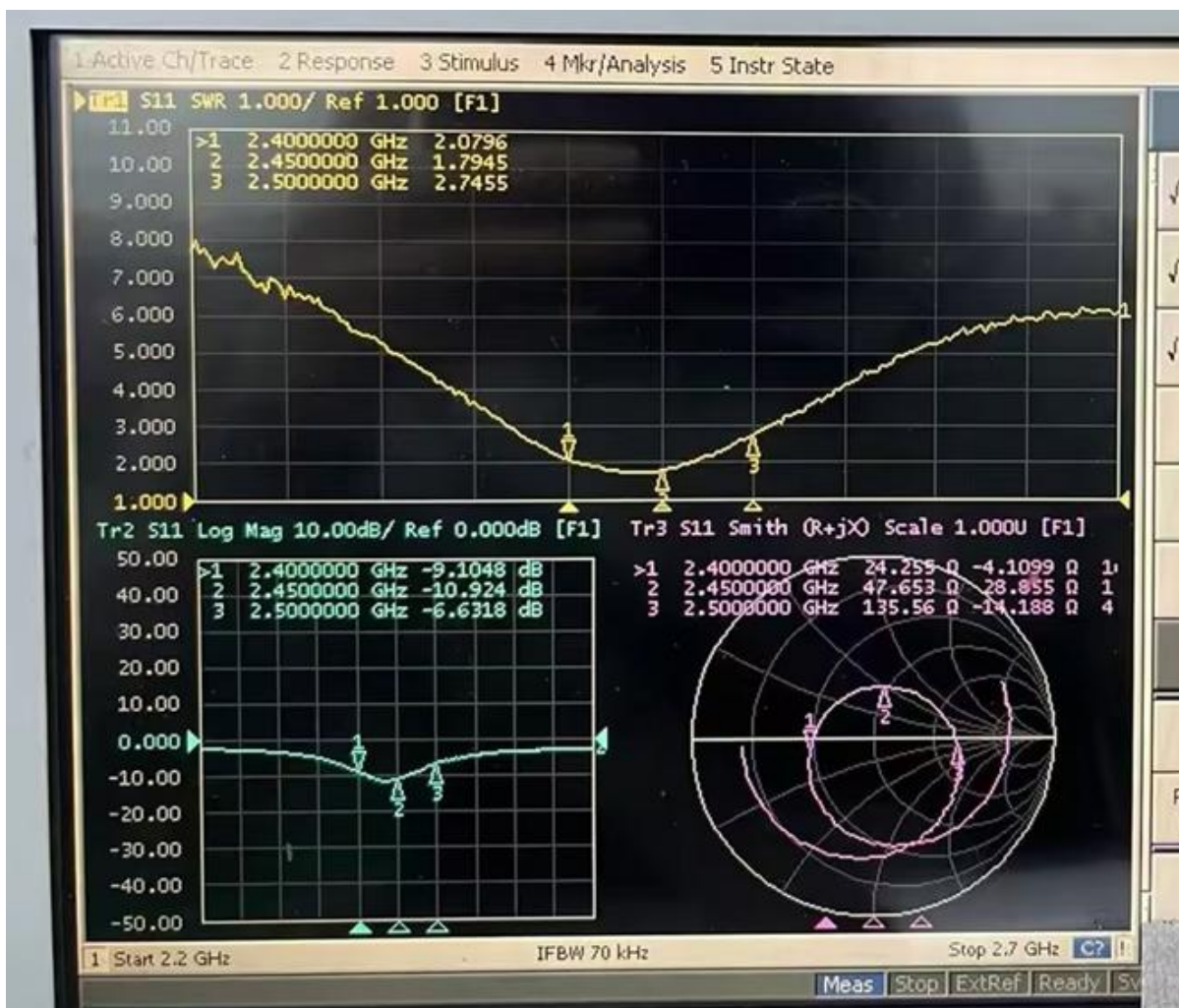


Physical Antenna Image:



Antenna attachment position

Antenna Performance Test Diagram:

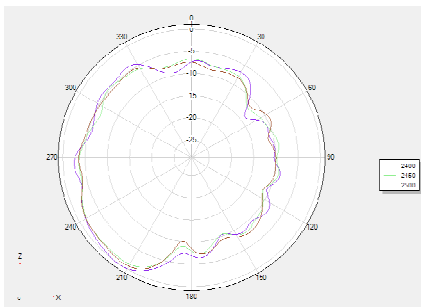




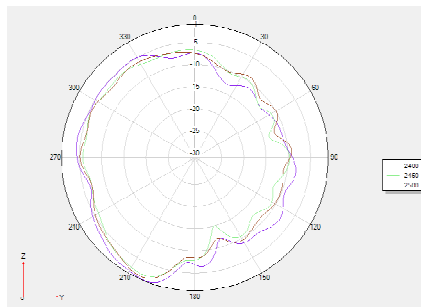
2D、3D test data (2.4G) :

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	26.49	0.76
2410MHz	25.16	0.14
2420MHz	29.55	0.32
2430MHz	25.93	0.45
2440MHz	30.14	1.02
2450MHz	28.41	0.02
2460MHz	30.96	0.57
2470MHz	27.44	0.17
2480MHz	32.91	1.04
2490MHz	30.06	0.34
2500MHz	27.06	0.7

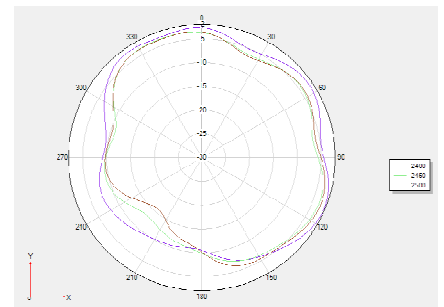
Phi 0 2D Diagram:



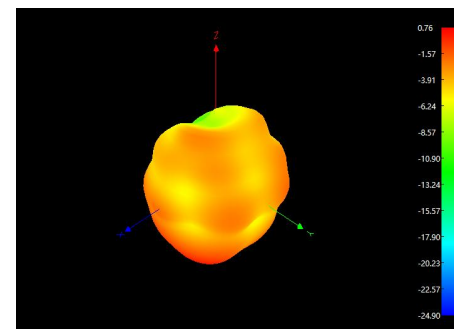
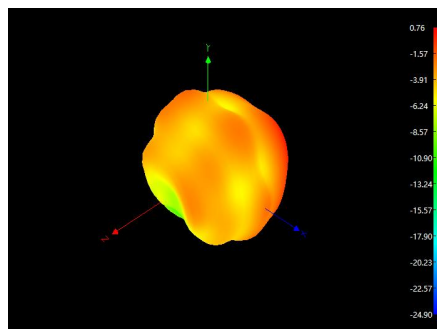
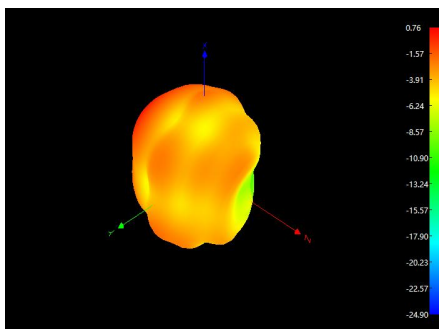
Phi902D graph



Theta902D graph

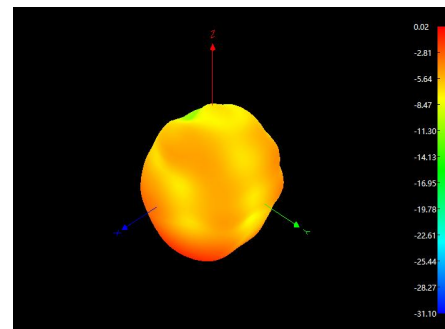
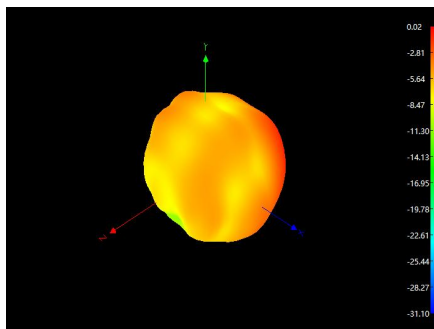
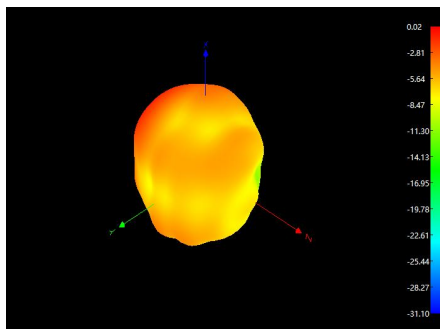


3D 2400:

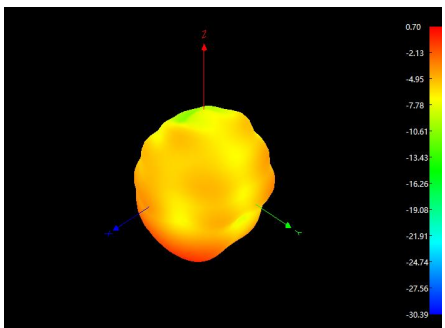
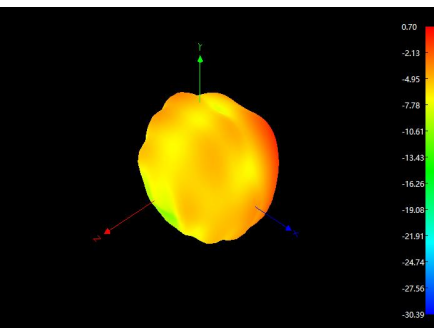
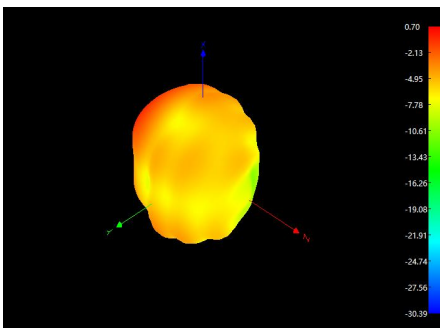




3D 2450:



3D 2500:





Shenzhen Yingjiachuang Electronic Technology Co., Ltd. <http://www.szsyjc.com>

ROHS Material Control Report											
It is hereby certified that all raw materials used in the components and auxiliary materials delivered to your company, as well as additives employed in the manufacturing process, comply with the environmental requirements of the RoHS Directive on the Restriction of Hazardous Substances (RoHS Directive 2011/65/EC).											
The composition details of raw materials used for components and auxiliary materials, packaging materials, as well as additives employed during production are reported as follows:											
Material Composition Name Component /Part Name	Material Composition Material Composition	ICP report number ICP report #	Test Organization: Test Org.	Test Date	Target substance content (ppm)						Is it qualified? PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Wire stock	Coaxial Cable	NGBPC24007471212	SGS	25/06/22	ND	ND	ND	ND	ND	ND	PASS
Environmental-friendly wire	Environmental-friendly wire	SZXPC25000282511	SGS	25/02/27	ND	71	ND	ND	ND	ND	PASS
Terminal	Phosphor bronze	CANEC25027363005	SGS	25/11/13	ND	4	ND	ND	ND	ND	PASS
	Gold plate	A2250437743101001E	CTI	25/06/27	ND	ND	ND	ND	ND	ND	PASS
	Core	48279652A4001	CTI	25/07/25	ND	ND	ND	ND	ND	ND	PASS
FPC	Printing ink	ETR25501383	SGS	25/05/20	ND	ND	ND	ND	ND	ND	PASS
	3M9471LE	SHAEC24027480901	SGS	25/03/16	ND	ND	ND	ND	ND	ND	PASS
	Base material	SHAEC24028809006	SGS	25/10/18	ND	ND	ND	ND	ND	ND	PASS