



深圳有力科技有限公司

ShenZhen Powerful Technology CO., Limited

SPECIFICATION FOR APPROVAL

CUSTOMER: Hanyang technology

CUSTOMER NO: _____

PART NAME: WIFI antenna/FPC material, 1.13 black line ipex-1 L=200MM

SUPPLIER NO: YL1190-WIFI-L200

Date: 2023.07.24

version: V1

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
Xuanxuan zhao	na chen	Quan zhang

Laboratory test environment and equipment



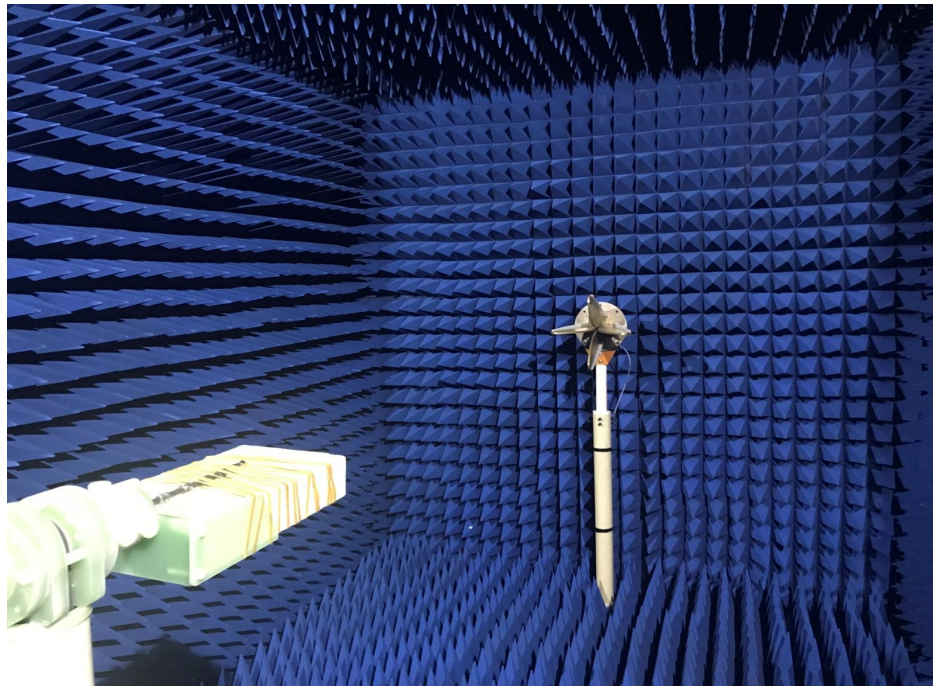
CMW500



E5071B



Agilent 8960



(Test Project) : S11、S12 、 VSWR 、 Efficiency、 Gain 3D Radiation Pattern 、 TRP、 TIS



Letter of acceptance 3

1. (Technical Index) 4

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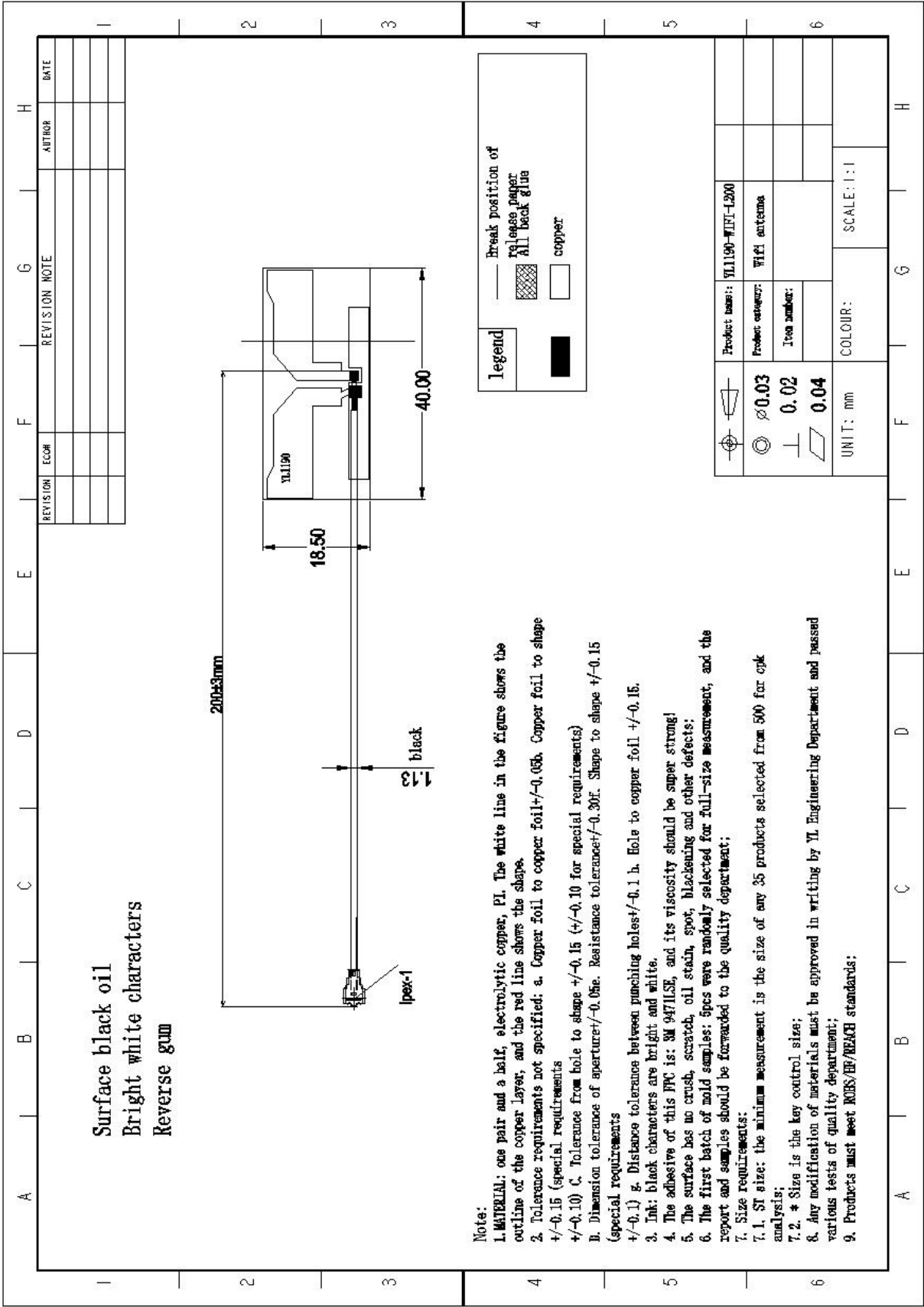
3.(Antenna test data) 6-8

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1. (Technical Index)

Frequency Range (MHz)	2400-2500Mhz/2412-2462Mhz
Antenna gain (dBi)	2400-2500Mhz/2412-2462Mhz MAX 1.78dBi
VSWR/50 Ohms	≤ 2.0
Impedance	50 Ω
Termination	Ipex-1 1.13 black line L=200mm
Working temperature (°C)	-30~+65
Antenna manufacturer	Shenzhen Powerful Technology Co.,Ltd.
Manufacturer's address	1/f, building a, wanhe Da Pharmaceutical Co. , Ltd. , high-tech Park, Nanshan district, Shenzhen

2. (Drawings)



3. (Antenna test data)

3-1 SWR.

SWR

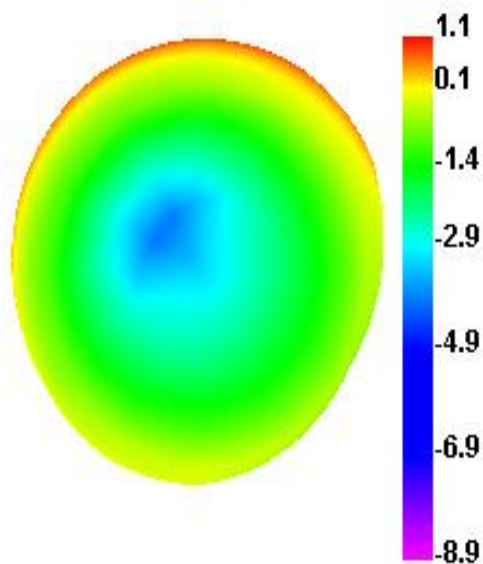


3-2 Antenna gain/efficiency.

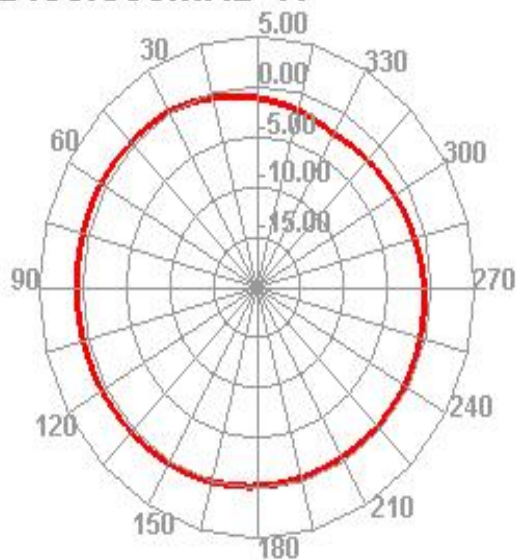
Passive Test For 2.4G		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.55	1.06
2405	51.82	1.19
2410	48.9	0.99
2415	49.21	0.96
2420	49.91	0.91
2425	47.27	0.63
2430	46.77	0.61
2435	50.91	0.88
2440	53.14	0.97
2445	53.96	1.01
2450	55.57	1.04
2455	56.18	1.06
2460	56.89	1.01
2465	55.03	1.02
2470	53.05	1.03
2475	53.81	1.21
2480	54.22	1.09
2485	55.67	1.27
2490	56.01	1.37
2495	55.96	1.44
2500	59.84	1.78

3-3 Apple map.

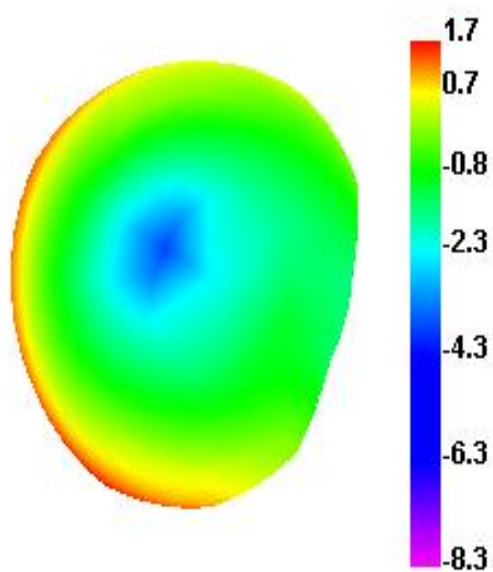
2400.000MHz



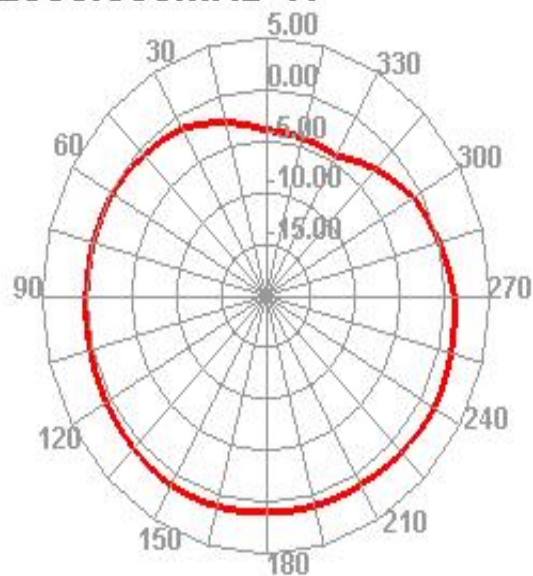
2400.000MHz H



2500.000MHz



2500.000MHz H



Package description of antenna assembly

General requirements:

1. State the customer name, project name and model.
2. The picture shows the inner and outer boxes, the packing method when shipping, the number of layers, the number of single layers, etc.
3. Fill in the name and quantity of packing materials in the remarks column. Note: If the line is too short, the terminal should not be wrapped with foam.



Figure 1: A bundle of terminal heads is wrapped with foam and put into PE bags, each bag 200/PCS



Figure 2: Packing PE bag with foam around it for protection



Figure 3: Shape of outer packing box



Figure 4: Labeling, full box shipment

Item number:	YL1190-WIFI-L200
Product name:	WIFI antenna
Version:	A1
Packing:	PE bag+outer box
Single binding quantity	100pcs/200pcs/
PE bag quantity	200PCS