

Antenna Datasheet



东莞市一佳电通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期
Date 2022/05/13

编号
File No 22051302

版本
Revision 1.0

客户
CUSTOMER: 天有为

客户料号
CUSTOMER NO: J100

品名
PART NAME: Bluetooth Antenna

供方料号
SUPPLIER NO: YJQ01.097.001.301A

送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

供方确认 SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

ChenGuoqiang

XieLi

ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



承认书项目表

NO.	内 容 (Contents)	页 数 (Number of Page)	页 码 (Page Code)
1	承认书封面 (Spec Cover)	1	1
2	承认书项目表 (Spec Item)	1	2
3	工程成品图 (Drawing)	1	3
4	天线规格 (Antenna Specification)	1	4
5	S参数测试 (S Parameter)	1	5
6	无源测试 (Passive Test)	1	6~7
7	天线装配图 (Antenna Profile)	3	8 ~ 10
8	材质证明 (Material Certificate)	35	11 ~ 45
9	RoHS报告 (RoHS Test Report)	**	**
10	N/A	N/A	N/A
11	-	-	-
12	-	-	-
13	-	-	-

RoHS
Compatible

CUSTOMER

PART NO

REV.

DESCRIPTION

DATE

△

首次发行

2022-05-13

△

更新线长

2021-12-07

△

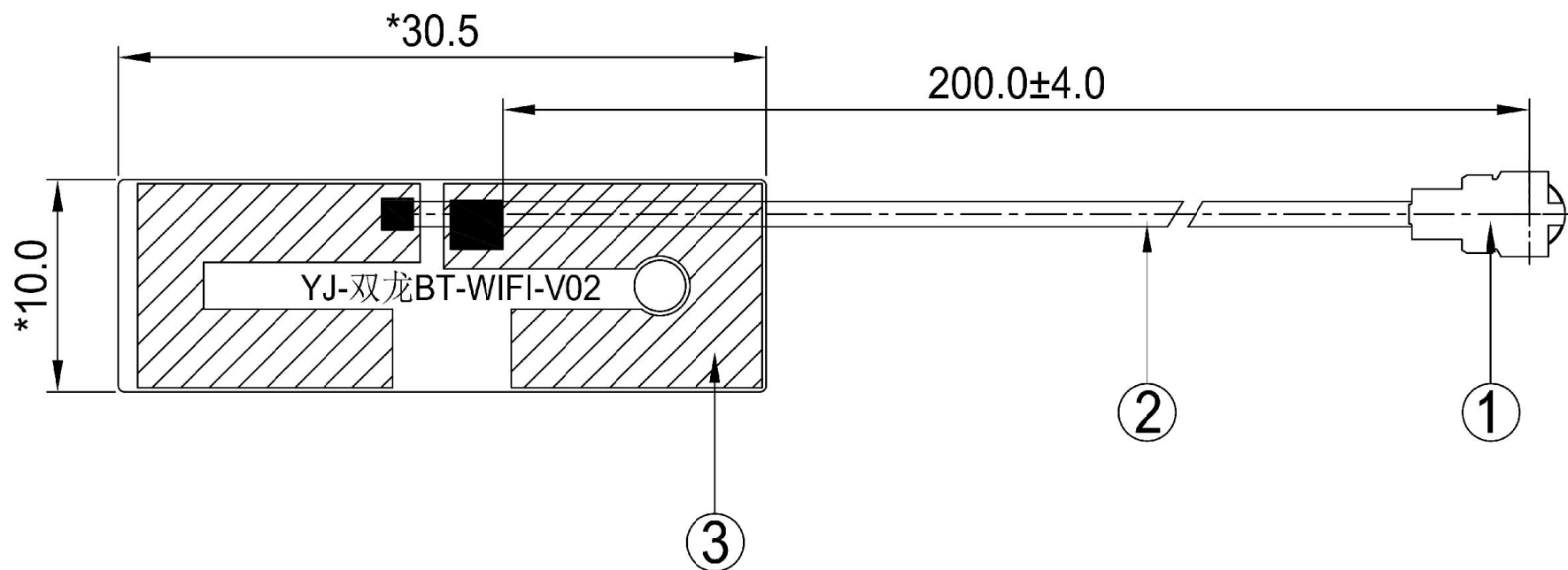
更改线长

2022-02-22

△

修改天线线路

2022-05-13



3	PCB Black	30.5*10.0*1.0MM	PCB	FPC1000XA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA1000XA.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER1000XA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd. Tel :0769-85535057 Fax:0769-81664308

PART NAME: WiFi Antenna

PART NO.: YJQ01.097.001.301A

DATE: 2022-05-13

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

陈国强

殷涛

吕森桦

UNITS: mm

X.X ±0.50

SCALE: 1/1

X.XX±0.15

REVISION: A

X° ±3°



天线规格

Antenna Specification

Electrical Properties

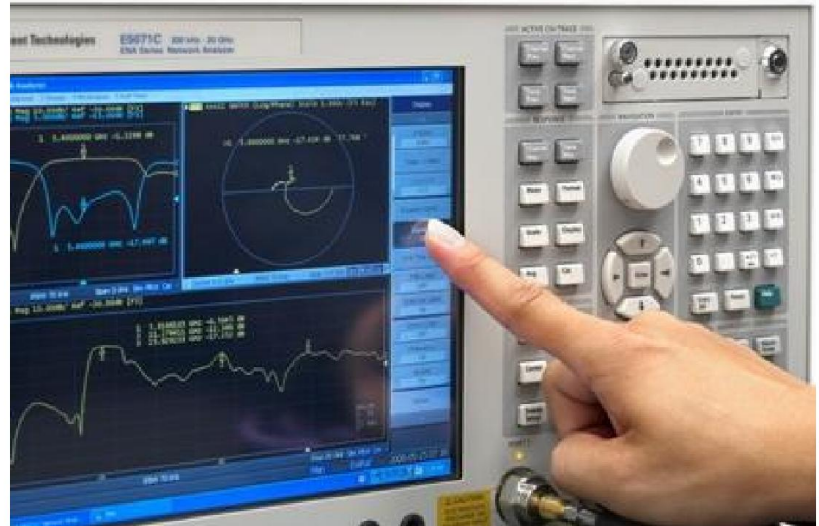
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	3.8 dBi
Radiation	Omni-directional
Polarization	Linear

Physical Properties

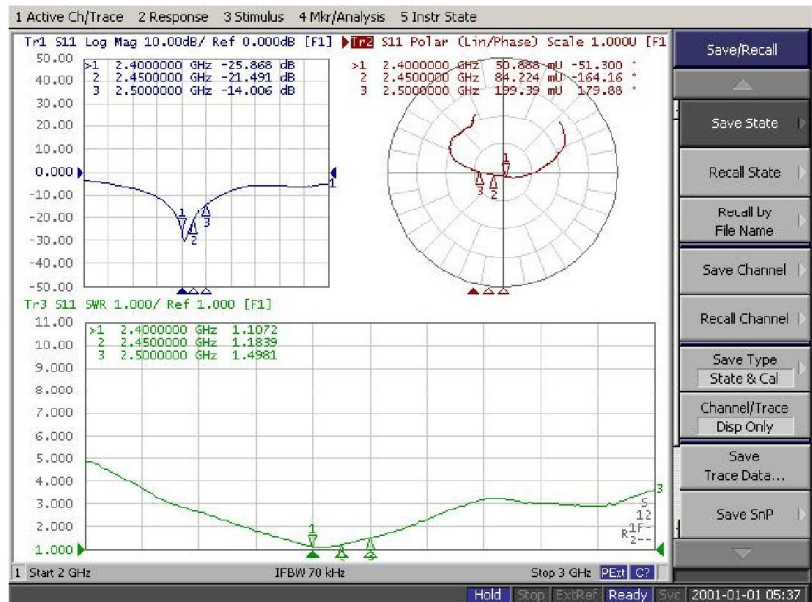
Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	200mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



Agilent E5071B



S Parameter Test // BT Antenna





Passive Test For BT2.4G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	32.7	-4.9	2.9
2410	33.2	-4.8	2.7
2420	33.8	-4.7	2.6
2430	33.4	-4.8	2.6
2440	33.3	-4.8	2.7
2450	35.3	-4.5	3.1
2460	35.2	-4.5	3.2
2470	36.0	-4.4	3.4
2480	35.2	-4.5	3.4
2490	35.4	-4.5	3.5
2500	37.2	-4.3	3.8



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 Date	2022/05/13
编号 File No	22051302
版本 Revision	1.0

客 户
CUSTOMER: 天有为

客户料号
CUSTOMER NO: J100

品 名
PART NAME: WiFi Antenna

供方料号
SUPPLIER NO: YJQ01.097.001.302A

送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



承认书项目表

NO.	内 容 (Contents)	页 数 (Number of Page)	页 码 (Page Code)
1	承认书封面 (Spec Cover)	1	1
2	承认书项目表 (Spec Item)	1	2
3	工程成品图 (Drawing)	1	3
4	天线规格 (Antenna Specification)	1	4
5	S参数测试 (S Parameter)	1	5
6	无源测试 (Passive Test)	3	6 ~ 8
7	天线装配图 (Antenna Profile)	3	9 ~ 11
8	材质证明 (Material Certificate)	35	12 ~ 46
9	RoHS报告 (RoHS Test Report)	**	**
10	N/A	N/A	N/A
11	-	-	-
12	-	-	-
13	-	-	-

RoHS
Compatible

CUSTOMER
PART NO

REV.

DESCRIPTION

DATE

A

首次发行

2022-05-13

B

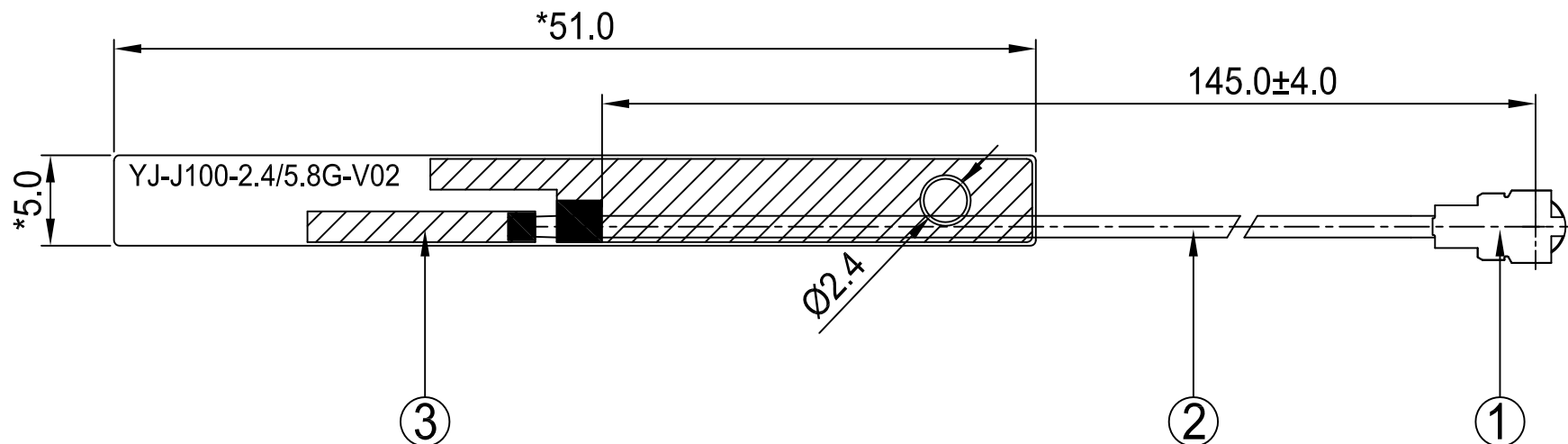
修改线材颜色

2022-03-14

C

修改天线线路

2022-05-13



3	PCB Black	51.0*5.0*1.0MM	PCB	FPC1000XA.P01	1
2	Coaxial Cable	O.D.1.13 Gray	O.D.1.13	COA1000XA.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER1000XA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd. Tel :0769-85535057 Fax:0769-81664308

PART NAME: WiFi Antenna

PART NO.: YJQ01.097.001.302A

DATE: 2022-05-13

APPROVED BY

CHECKED BY

DESIGNED BY

UNIT: mm

Tolerance

殷涛

孙宏

陈兴易

SCALE: 1/1

X.X ±0.50

REVISION: A

X.XX±0.15

X° ±3°



天线规格

Antenna Specification

Electrical Properties

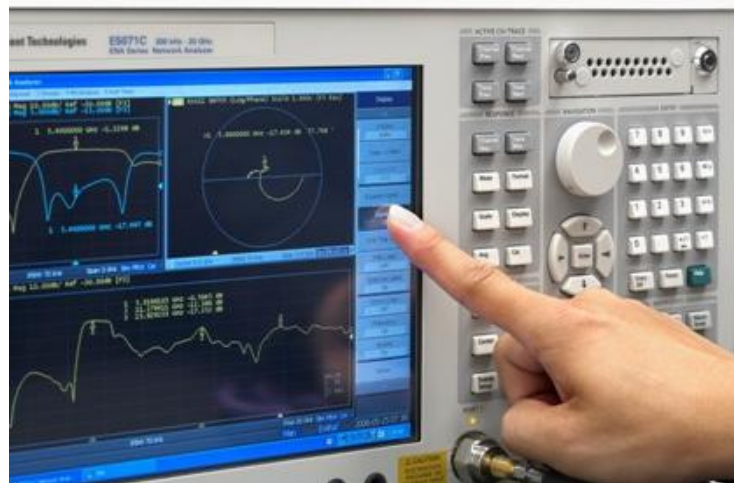
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	5.9 dBi@2.4-2.5GHz 1.3 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

Physical Properties

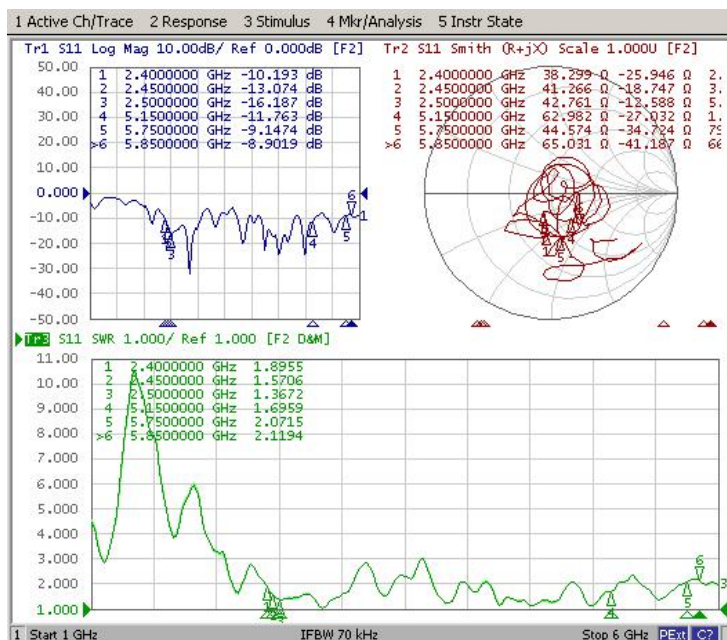
Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	145mm
Cable Color	Gray
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



Agilent E5071B



S Parameter Test // WIFI Antenna





Passive Test For WiFi2.4G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	48.5	-3.1	5.1
2410	50.6	-3.0	5.3
2420	52.8	-2.8	5.4
2430	54.2	-2.7	5.5
2440	55.8	-2.5	5.6
2450	60.1	-2.2	5.9
2460	59.3	-2.3	5.8
2470	60.2	-2.2	5.9
2480	58.6	-2.3	5.8
2490	57.9	-2.4	5.8
2500	58.4	-2.3	5.8



Passive Test For WiFi5.8G

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	35.5	-4.5	1.3
5200	31.6	-5.0	0.9
5250	35.0	-4.6	0.9
5300	35.9	-4.5	1.2
5350	32.3	-4.9	1.1
5400	34.6	-4.6	1.0
5450	37.2	-4.3	0.9
5500	33.6	-4.7	0.9
5550	35.4	-4.5	1.3
5600	34.4	-4.6	0.9
5650	35.6	-4.5	0.9
5700	38.1	-4.2	1.2
5750	32.3	-4.9	1.1
5800	34.6	-4.6	1.0
5850	37.2	-4.3	0.9