

Antenna Specification

Product specification model: WIFI:SLK-YLD-3222A2-R-220I-B

Antenna Type: FPC Antenna

Date: 2024.06.15

Manufature: Shenzhen Yishengbang Technology Co., Ltd.

Adress: Room 101, Building C, Qianwan Hard Technology
Industrial Park, Baoan District, Shenzhen, China

Telephone: 18025305599

Telephone: 18666299104

WIFI Antenna (3222A2)

1. Explanation of Product number :

S L K - Y L D - 3 2 2 2 A 2 - R - 2 2 0 I - B

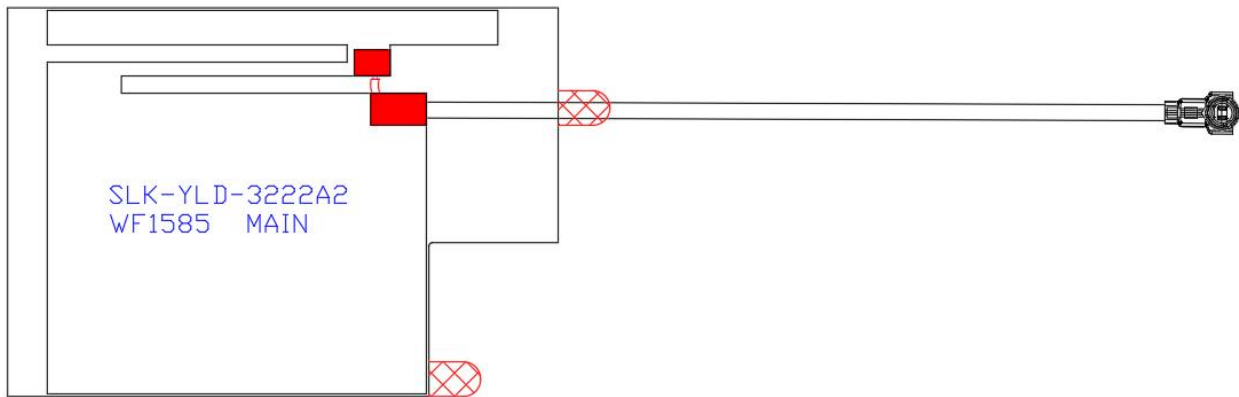
1

2

3

4

5



Product Code:

(1) Customer:

YLD:亿莱顿

(2) Project:

3222A2: SLK-YLD-3222A2 (WIFI antenna)

(3) Welding Position

R: Right

(4) Cable Length:

220I: 220*1.13MM 一代端子

(5)Cable Color

B: Black

2. Features

- *Stable and reliable in performances
- *Compact size
- *RoHS compliance

3. Applications

- * IEEE802.11 (a/b/g/n)
- * Hand-held devices when WIFI (802.11a/b/g/n) functions are needed

4. Description

Holy bond's FPC antenna series are specially designed for WIFI (802.11 a/b/g/n) applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

5. Electrical Specifications

5-1

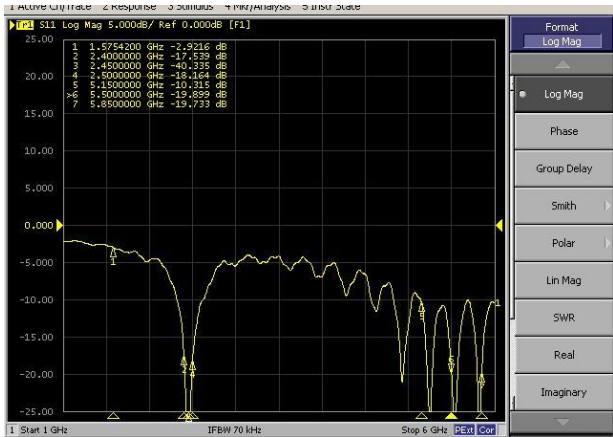
Characteristics	Specifications	Unit
Outline Dimensions	31.95x22.5x 0.12	mm
Center Frequency	2.4-2.5/5.15-5.85	GHz
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	3max	
Impedance	50	Ω
Polarization	Linear Polarization	

5-2.

VSWR



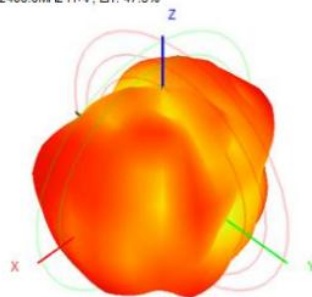
S11



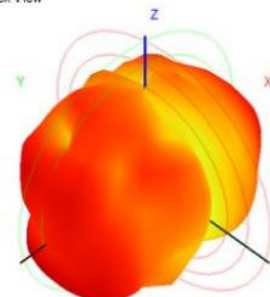
5-3.WIFI MAIN Antenna Gain/Efficiency/3DDATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-3.25	0.86	47.28
2410	-3.28	0.91	47.04
2420	-3.59	0.58	43.76
2430	-3.32	0.78	46.55
2440	-3.23	0.78	47.55
2450	-3.03	0.99	49.81
2460	-3.08	0.83	49.15
2470	-3.10	1.02	49.01
2480	-3.11	0.83	48.92
2490	-2.87	1.18	51.69
2500	-2.77	1.46	52.79
5150	-2.96	2.94	50.54
5250	-3.70	2.17	42.61
5350	-3.35	2.70	46.22
5450	-3.61	2.36	43.53
5550	-3.10	2.82	48.94
5650	-3.15	2.74	48.41
5750	-3.17	2.86	48.18
5850	-2.89	2.46	51.43

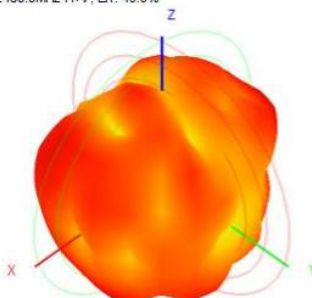
2400.0MHz H+V, Eff: 47.3%



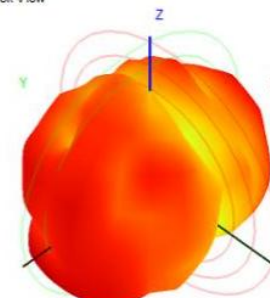
Back View



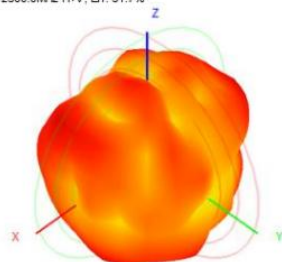
2450.0MHz H+V, Eff: 49.8%



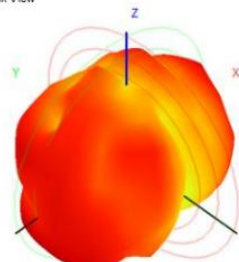
Back View



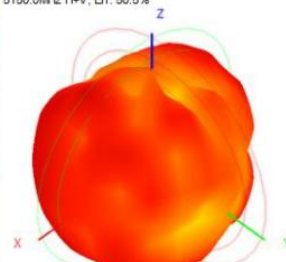
2500.0MHz H+V, Eff: 51.7%



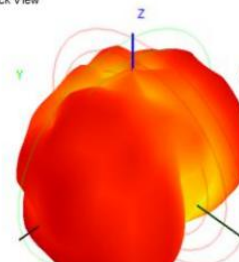
Back View



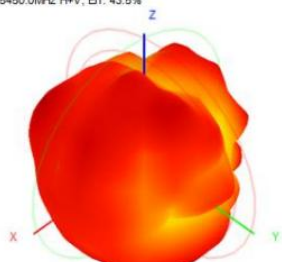
5150.0MHz H+V, Eff: 50.5%



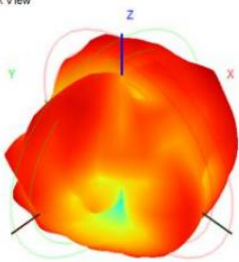
Back View



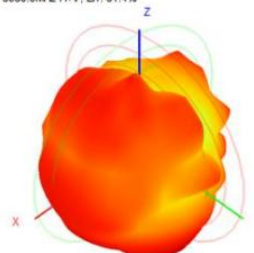
5450.0MHz H+V, Eff: 43.5%



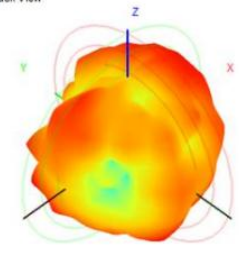
Back View



5850.0MHz H+V, Eff: 51.4%



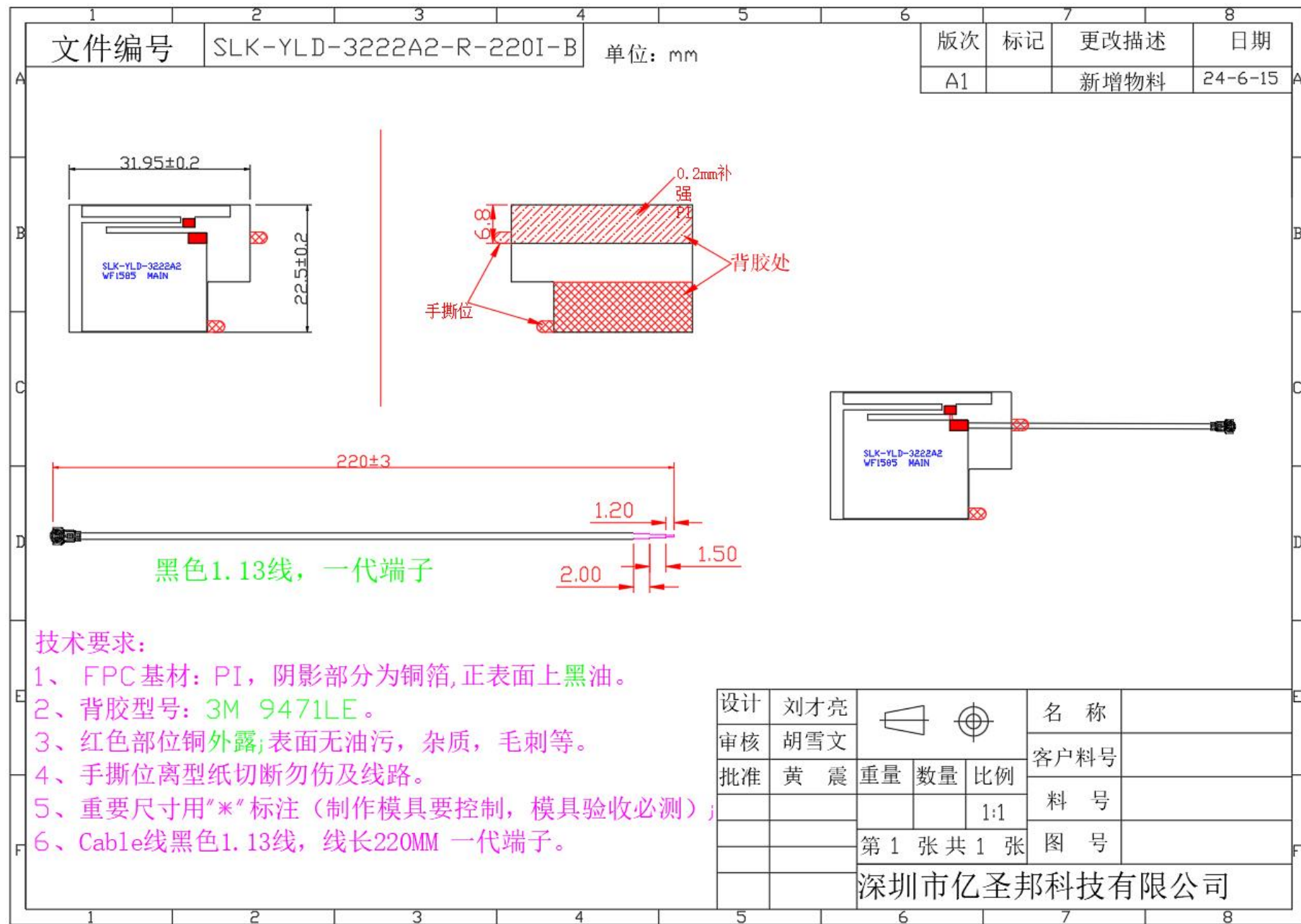
Back View



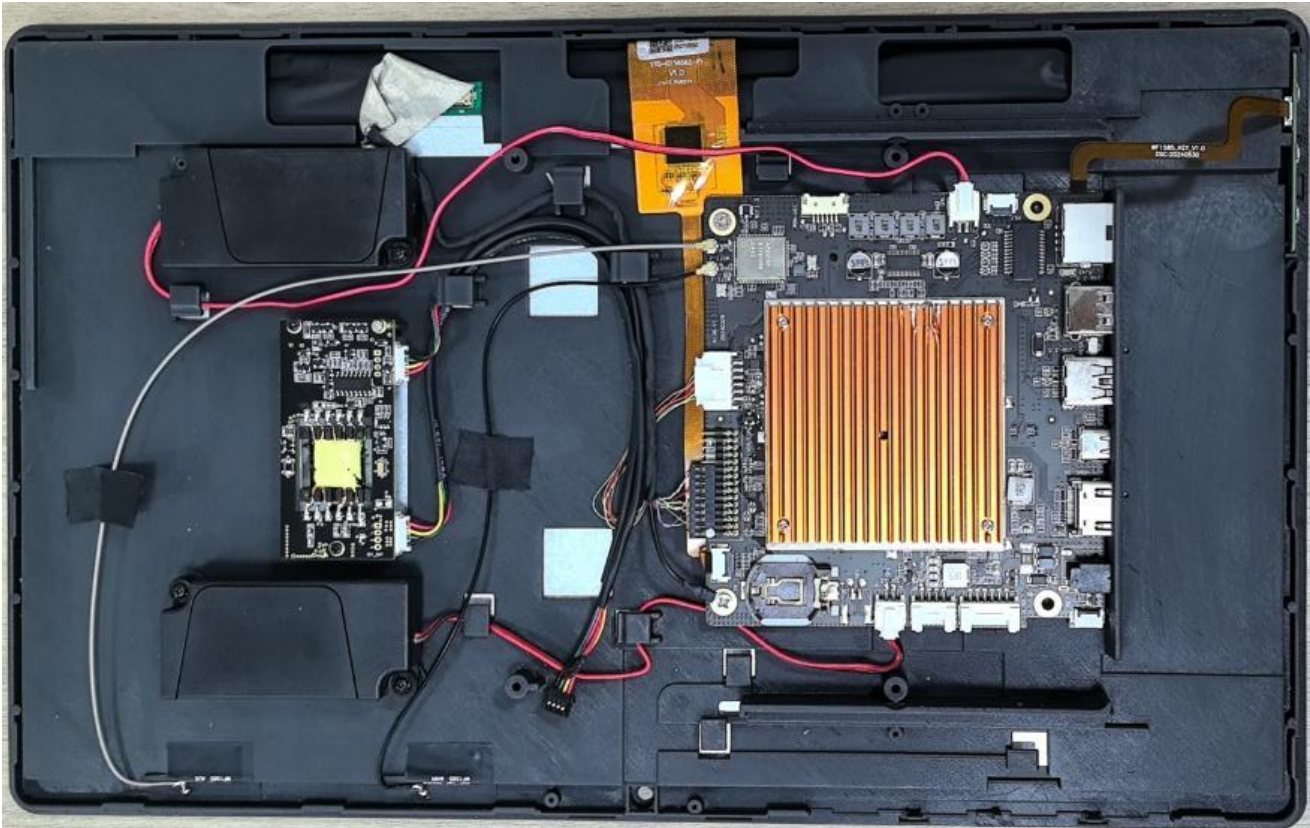
5-4.WIFI active test

WIFI有源测试			
频段	1	6	11
B-TRP-11Mbps	12. 49	13. 39	13. 93
B-TIS-11Mbps	-81. 48	-80. 56	-80. 50
G-TRP-54Mbps	12. 53	13. 27	13. 13
G-TIS-54Mbps	-72. 75	-73. 14	-72. 33
N-TRP-MCS7	12. 49	13. 41	13. 07
N-TIS-MCS7	-70. 17	-70. 77	-70. 65
频段	36	149	165
A-TRP-54Mbps	13. 80	13. 86	13. 26
A-TIS-54Mbps	-72. 74	-71. 55	-72. 05

6. Antenna Dimensions (unit: mm)



7. Antenna Picture



Main Antenna