

Shenzhen Yishengbang Technology Co., LTD
Sample acceptance letter
SPECIFICATION FOR APPROVAL

The name of the company : Shenzhen NaSida Industry and Trade Co., LTD

The material code: _____

specifications: NI20092

Admitted to date: _____

The name of the supplier: Shenzhen Yishengbang Technology Co., LTD

Supplier standard type number: WIFI+GPS:SLK-NSD-4519-R-185IV-B

Admit signature

For acceptance by the contractor			Shenzhen NaSida Industry and Trade Co., LTD		
Rf Engineer	audit	approval	Rf Engineer	audit	approval
Shi Lian	Zhen	Mei Cai			
Chen	Huang	Lin			
Signed and sealed			Signed and sealed		
date		2022-11-24	date		
instructions: ☐ accept ☐ Conditional acceptance					
note:					

The name of the supplier: Shenzhen Yishengbang Technology Co., LTD

Supplier address : 608, Building B, Shenzhen Qianwan Hard Technology Industrial Park, Bao 'an District, Shenzhen

telephone: 18025305599

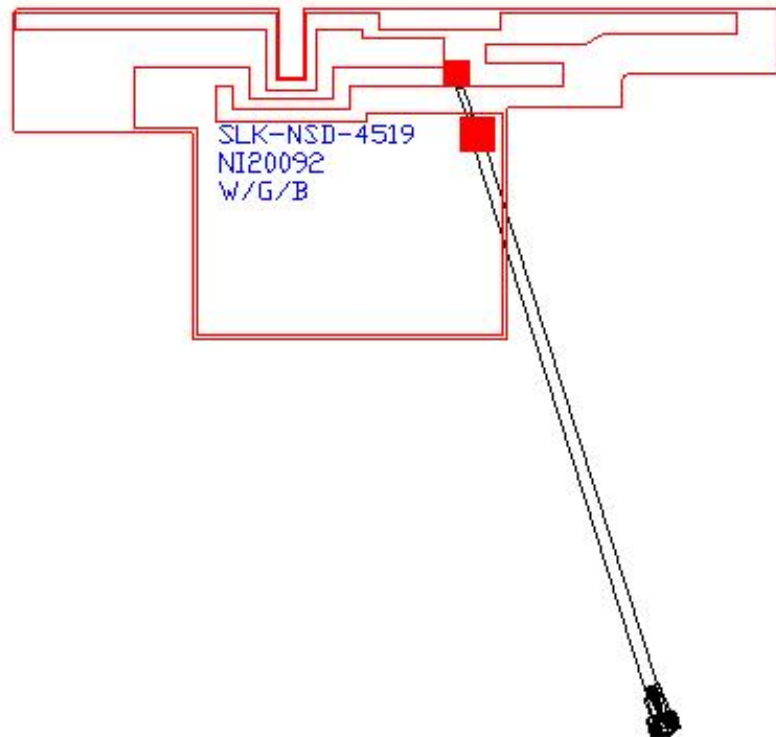
telephone: 18666299104

WIFI Antenna (4519)

1. Explanation of Product number :

S L K - N S D - 4 5 1 9 - R - 1 8 5 I V - B

1 2 3 4 5



Product Code:

(1) Customer:

NSD:NaSida

(2) Project:

4519: SLK-4519 (WIFI antenna)

(3) Welding Position

R: Right

(4) Cable Length:

185IV: 185*1.13MM,fourth generation terminal

(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 (802.11a/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.

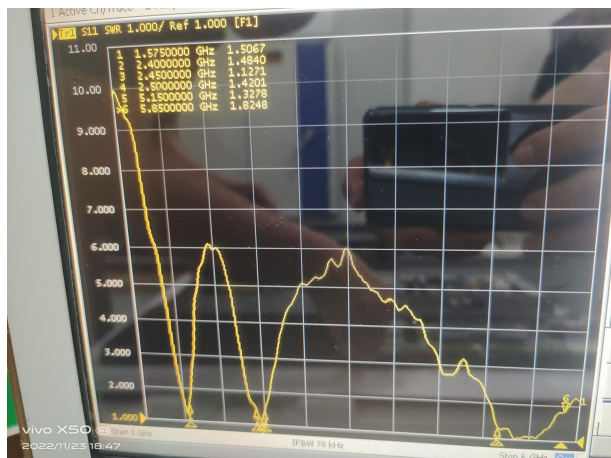
5. Electrical Specifications

5-1

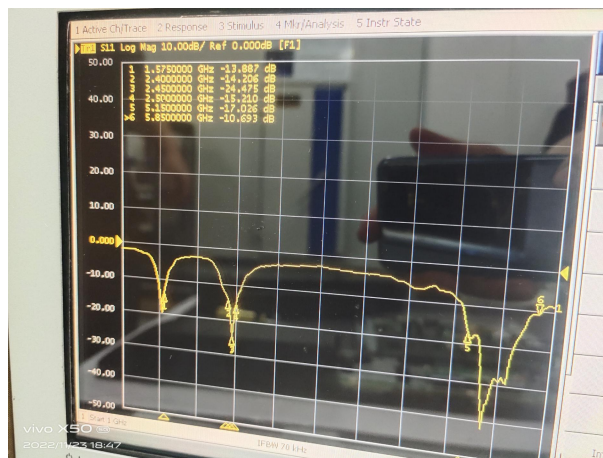
Main technical specifications	
Frequency Range (MHZ)	2400-2500+5150-5850
Impedance(Ω)	50
Gain(dBi)	2.5 $\pm$ 0.5
VSWR	≤ 2
Polarization	Linear,Vertical
Radiation	Omni-directional
Connector Type	fourth generation terminal
Physical Properties	
Antenna cover	FPC
Operating Temp	-20 $^{\circ}$ C $\sim$ +70 $^{\circ}$ C
Storage Temp	-20 $^{\circ}$ C $\sim$ +70 $^{\circ}$ C

5-2.

VSWR



S11

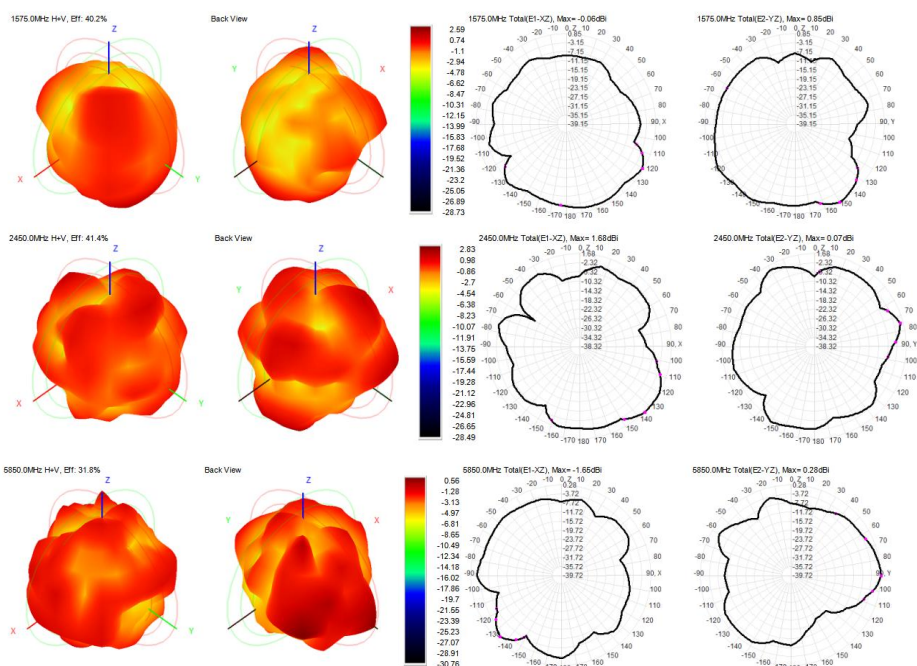


5-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D

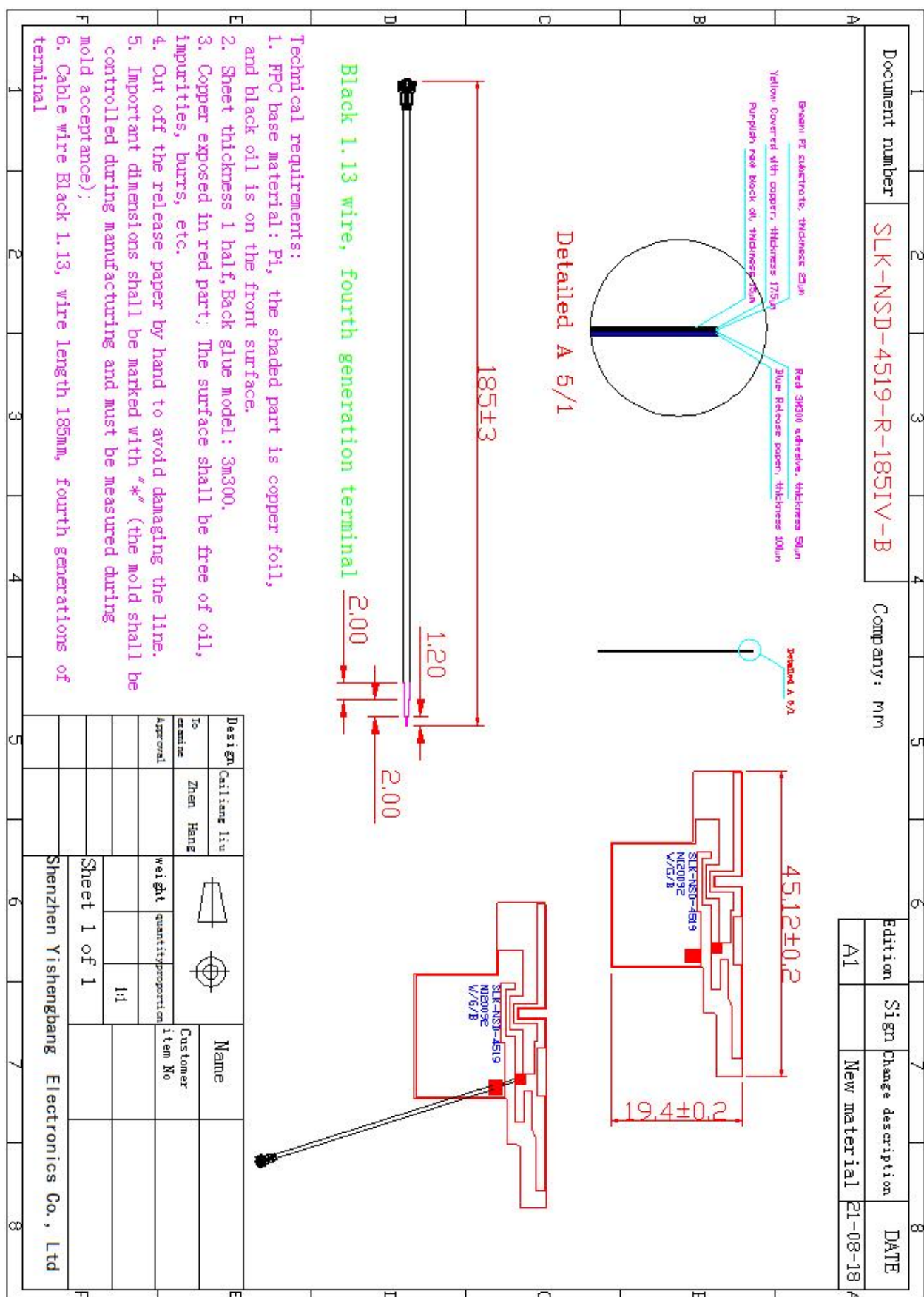
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
1570.0	-3.90	2.52	40.78
1575.0	-3.96	2.59	40.19
1580.0	-4.03	2.67	39.53
2400.0	-4.00	3.95	39.78
2410.0	-3.96	3.92	40.15
2420.0	-3.92	3.69	40.57
2430.0	-3.87	3.39	40.98
2440.0	-3.83	3.05	41.40
2450.0	-3.83	2.83	41.36
2460.0	-3.85	2.70	41.23
2470.0	-3.80	2.81	41.65
2480.0	-3.77	3.00	41.96
2490.0	-3.65	3.10	43.15
2500.0	-3.51	3.07	44.61
5150.0	-5.21	0.72	30.10
5250.0	-5.06	0.50	31.17
5350.0	-4.64	0.95	34.32
5550.0	-4.33	0.56	36.87
5750.0	-5.08	-0.30	31.04
5850.0	-4.98	0.56	31.79

WIFI Active testing			
spectrum	1	6	11
B-TRP-11Mbps	13.78	14.34	15.09
B-TIS-11Mbps	-80.23	-80.68	-80.45
G-TRP-54Mbps	11.34	12.25	11.23
G-TIS-54Mbps	-67.12	-67.23	-67.48
N-TRP-MCS7	11.15	12.31	11.53
N-TIS-MCS7	-64.18	-64.35	-64.27
spectrum	36	149	165
A-TRP-54Mbps	8.73	8.26	8.66
A-TIS-54Mbps	-67.33	-67.62	-68.21

Active testing



6. Antenna Dimensions (unit: mm)



7. Antenna Picture



As shown here:

1. Pull a conductive cloth in the group shielding cover and ground the screen, and then put a conductive sponge in contact with the back cover.

2. Screen line pull a conductive cloth wrapped shielding processing

3. The environment at the bottom of the motherboard remains unchanged and is treated according to the customer's original environment.