Product Specification

Customer: NEXGO

Customer code: 07.01.0363

Specification :   UN20 WIFI ANT

Manufacturer code: XGD-170C　(RB version)

Manufacturer: Shenzhen Bogesi Communication Technology Co.,Ltd

Recognition date: 23-Mar-2023

Supplier Sign and Seal	Customer Sign and Seal

Scope of application：

Suitable for NEXGO WiFi antenna solution.

Electrical Specifications：

Frequency Band	2.4/5G	The antenna material	FPC
Nominal Impedance	50Ω	Operating temperature	Touch
VSWR	≤3.0	Long-term storage temperature	-40℃～+85℃
Peak Gain	2400-2500MHz:1.80dBi	Polarization mode	+19℃～+23℃
	5150-5850MHz:3.98dBi	Polarization	Linear Polarization

Test Conditions And Methods:

| Test Instruments	Test Method	Test Result
16-probe test system CMW5000 comprehensive tester	1. Assemble the antenna to be tested on the prototype 2. Turn on the prototype on the test fixture in the darkroom and establish a connection with the comprehensive tester 3. Test the TRP and TIS of the antenna with test software	Refer to the Test Report

Test Data：

Band	Channel	TRP	TIS
		11g/6M	11g/54M
WIFI 2.4G	Low	10.31	-62.92
	Mid	10.35	-62.93
	High	10.06	-60.28
		11n/6.5M	11n/65M
WIFI 5G	Low	11.26	-63.78
	Mid	11.65	-64.77
	High	12.03	-67.16

Antenna Efficiency:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	47.45	1.78	5400	53.47	3.26
2410	47.42	1.8	5420	53.86	3.29
2420	43.6	1.41	5440	52.4	3.25
2430	45.61	1.35	5460	51.12	3.28
2440	40.8	1.12	5480	51.23	3.31
2450	43.77	1.2	5500	52.66	3.57
2460	40.9	1.02	5520	52.92	3.59
2470	43.22	1	5540	56.33	3.86
2480	40.82	0.68	5560	55.61	3.92
2490	42.84	0.75	5580	55.08	3.98
2500	39.96	0.38	5600	53	3.59
5140	32.86	1.77	5620	51.99	3.55
5160	38.31	2.73	5640	47.56	3.88
5180	43.71	3.31	5660	45.23	3.67
5200	50.35	3.28	5680	45.3	3.66
5220	54.35	3.79	5700	42.56	3.4
5240	60.05	3.35	5720	43.21	3.52
5260	56.51	3.06	5740	43.02	3.61
5280	59.92	3.42	5760	45.26	3.87
5300	59.2	3.44	5780	47.86	3.94
5320	53.54	3.04	5800	52.56	3.84
5340	55.02	3.26	5820	48.19	3.65
5360	55.81	3.28	5840	45.59	3.43
5380	55	3.44	5860	42.51	3.43

Antenna Directional Diagram:
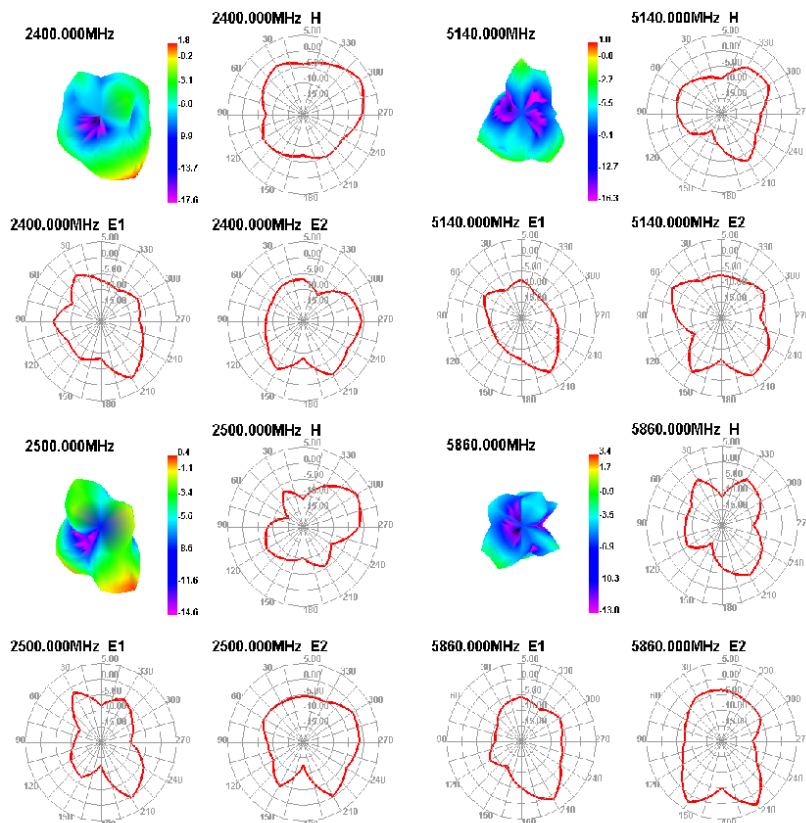
Sample Pictures：

16.6

6.7

ø1.5

Front view
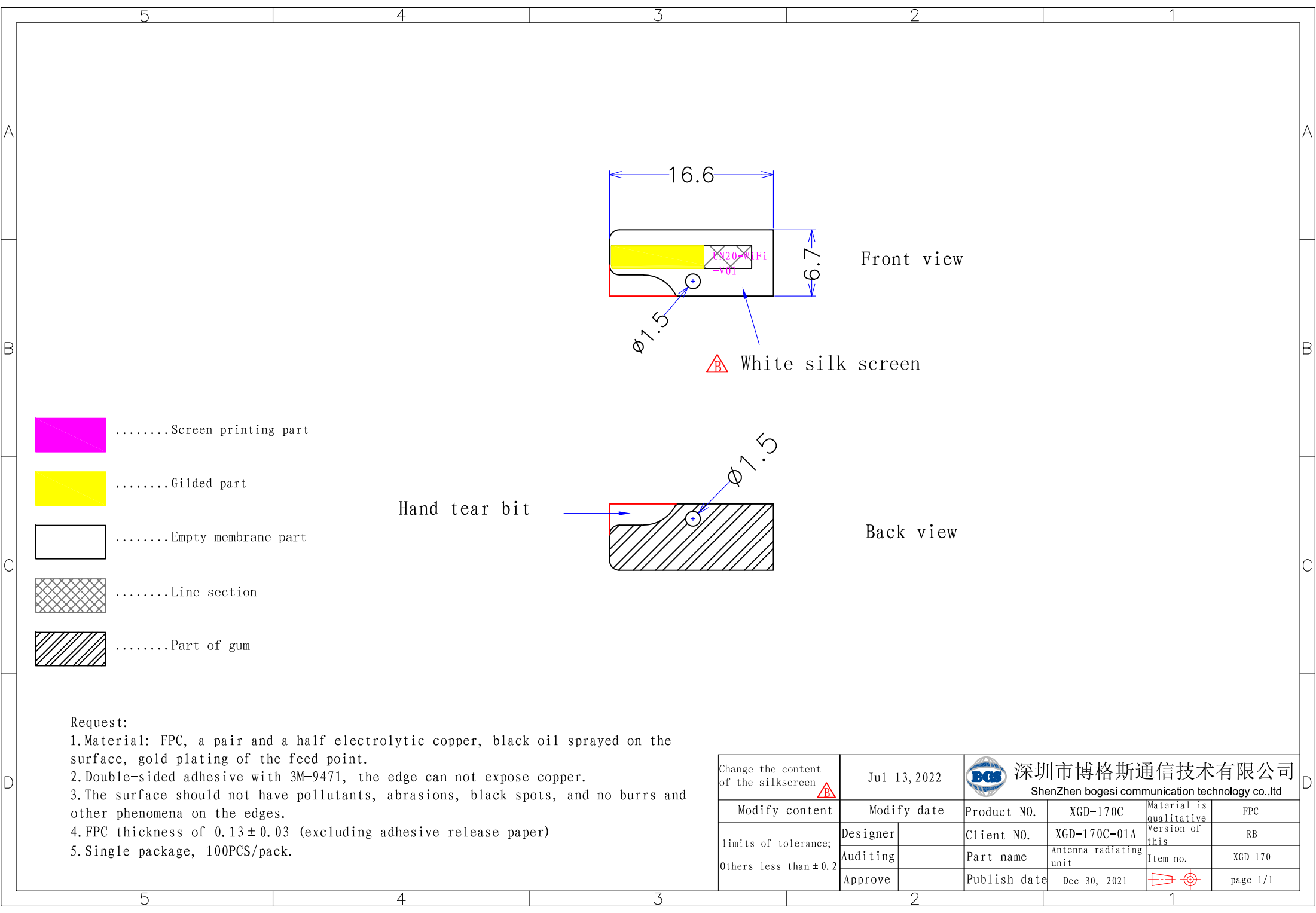
⚠B White silk screen

........Screen printing part

........Gilded part

........Empty membrane part

........Line section

........Part of gum

ø1.5

Hand tear bit

Back view

LN20-WiFi-V01

Request:
1. Material: FPC, a pair and a half electrolytic copper, black oil sprayed on the surface, gold plating of the feed point.
2. Double-sided adhesive with 3M-9471, the edge can not expose copper.
3. The surface should not have pollutants, abrasions, black spots, and no burrs and other phenomena on the edges.
4. FPC thickness of 0.13±0.03 (excluding adhesive release paper)
5. Single package, 100PCS/pack.

Antenna packaging instructions

一、Outer packing (carton packing)

Front view:
side view:

二、Inner packaging(Each 100PCS is packed in a small package, and then the package size is determined according to the product size)

Declaration form of product material composition

The product name	UN20 WiFi ANT	Product model	XGD-170C		Declaration date		23-Mar-2023
The name of the company	Shenzhen Bogesi Communication Technology Co.,Ltd	The contact		Zhou Xuebing	The phone		0755-86083452

The serial number	Part name	Name of homogeneous material	The amount of RoHS limiting substance contained in homogeneous material (ppm)						Test report no.	Inspection date
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	Antenna radiation unit	Electrolytic flexible copper clad plate	ND	ND	ND	ND	ND	ND	SHAEC23001049106	2023/2/15
2		Printing ink	ND	ND	ND	ND	ND	ND	ETR22705905	2022/8/5
3		3M glue	ND	ND	ND	ND	ND	ND	SHAEC2217569205	2022/12/30
4		Gold painting	ND	ND	ND	ND	ND	ND	A22202833397101001C	2022/7/9

Make people:Liang Jinghua   The reviewer: Liang Deliu

Description:
The material analysis expansion table is similar to the machine BOM of our company, which explains the composition of each material provided by the supplier, and then carries out RoHS control for each component (or the supplier shall conduct RoHS compliance management for his supplier and provide inspection certificates of each three parties).
A complete material analysis expansion table, which includes:
1. Material expansion table: component decomposition of parts
2. Third party verification report of each componen