



深圳市凯木金科技有限公司 Cameraking Technology CO.,LTD.
自强不息，厚德载物 我们致力于成为中国及世界级企业首选供应商!

Sample acknowledgement

SPECIFICATION FOR APPROVAL

APPROVAL SHEET NO: 231100164

PRODUCTS:G300-N563 WIFIantenna

THREE GOLDS PART NO: V1.0

REVERSION: WIFI antenna, 2.4-2.5GHZ, Gain: 4.2dBi, Impedance: 50Ω, White Copper Metal Plug-in Antenna

DATE:2021.12.23

PROVIDER:Shenzhen Daxian Technology Co., Ltd.

APPROVED BY VENDOR

Recognize	Calibrate	Audits	License

APPROVED BY CUSTOMER

Recognize	Calibrate	Audits	License

Supplier Information Fill :

Contact Person: Zhou Kang

Shangshuijing Village, No. 513, ihua Road, BujiTown, Longgang District, Shenzhen (opposite to theNational Defense Training Base)reached the 7thfloor of the Industrial Park Complex

TEL:0755-28576002

FAX:0755-84276383

Change resume

version number	Change content	Reason for change	Initiate change Party	date	Modifier
V1.0	create			2021. 12. 23	

www.Topant.com.cn

Confidential requirement

Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.

Index

Project description.....	4
WIFI antenna.....	4
1、 specifications.....	4
1.1 Electrical specification standard.....	5
1.1.2 Matching circuit.....	5
1.1.3 Antenna position picture.....	5
1.2 Antenna composition.....	5
2、 The Equipment of Active Test.....	6
3、 test.....	7
3.1 The Test of standing Wave (VSWR).....	7
3.1.1 test connection.....	7
3.2 Measurement of Efficiency, Power (TRP) and Sensitivity (TIS).....	7
3.2.1 Test site.....	7
3.2.2 Test instrument.....	7
3.2.3 test data	7
4、 VSWR Parameter Map.....	8
5 、 2D&3D Field Map.....	9
6、 conclusion	9
Schedule drawing.....	10
Sample test report.....	11-12
1、 full-size inspection report.....	11
2、 CPK Inspection Reportspecifications.....	12
Sample Reliability Test Report.....	13
1、 Salt spray test report.....	13
ROSH Report.....	14
QC Drawings.....	15
Packaging.....	16

www.Topant.com.cn

Confidential requirement

Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.

– **Project description**

Customer name:	360
Whole machine type:	car recorder
Antenna band:	2400 ~ 2500MHz
Antenna form:	Copper shrapnel
Feed form:	alloy
Number of feed feet:	2 Feed
Hardware version:	motherboard:

一、**WIFI antenna**

This report provides a variety of measurements of the electrical performance of the G300-N563 antenna. Figure 1 shows the antenna designed by the display.



ole machine appearance chart

antenna appearing diagram

Figure 1

www.Topant.com.cn

Confidential requirement

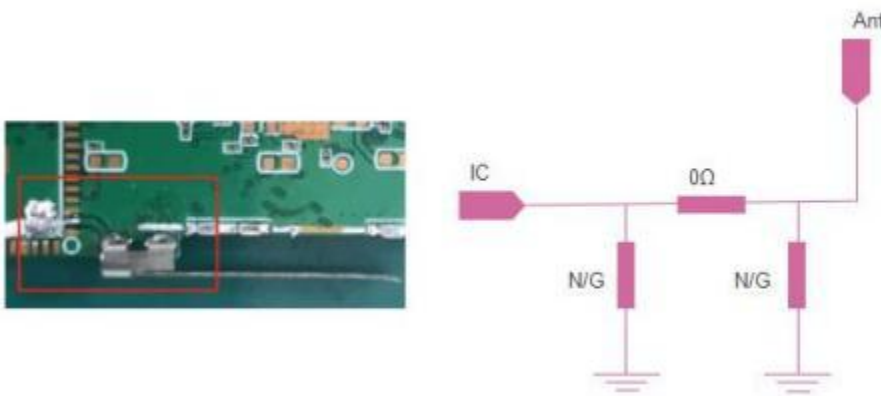
Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.

1.1 Electrical specification standard

The frequency range of the antenna is 2400 ~ 2500 MHz. The following table indicates the electrical performance specifications of the antenna. The antenna is designed and manufactured by a large display.

Frequency Range	Frequency (MHz)	VSWR
WIFI	2400 ~ 2500	≤ 2

1.1.2、 Matching circuit:



1.1.3、 Antenna position picture:



1.2 Antenna composition

The antenna is mainly composed of Nickel-silver shrapnel.

www.Topant.com.cn

Confidential requirement

Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.

2、 The Equipment of Active Test

Satimo 3D Chamber 6×4×4(m)

Agilent 8960 E5515c

Network analyzer-R&S ZVL



Figure 2

www.Topant.com.cn

Confidential requirement

Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.

3 test

3.1 The Test of standing Wave (VSWR)

3.1.1 The Test of standing Wave (VSWR): In turn, the connection of the VSWR testing device is as follows: RES ZVL Network Analyzer / testing Line / testing tool

Actual measurement (with diagram)

3.2 Measurement of Efficiency, Power (TRP) and Sensitivity (TIS)

3.2.1 Test site:

Large-scale microwave darkroom. The test frequency range is 400MHz / 6GHz, the static range is 50cm circumferential and the reflectivity is less than-50 dB..

3.2.2 Test instrument:

Rs ZVL Network Analyzer, Agilent8960 E5515C, Standard Horn Antenna, French SATIMO-SG24SYSTEM system, Printer, etc.

3.2.3 test data : In microwave anechoic chambers, the power and sensitivity values measured are shown in the following table:

OTA active test:

	CH	TRP (dBm)	TIS (dBm)
802.11b	1	17.12	-79.66
	6	17.32	-80.12
	11	16.92	-80.03
802.11n	1	13.46	-62.23
	6	13.23	-63.66
	11	13.22	-62.89

www.Topant.com.cn

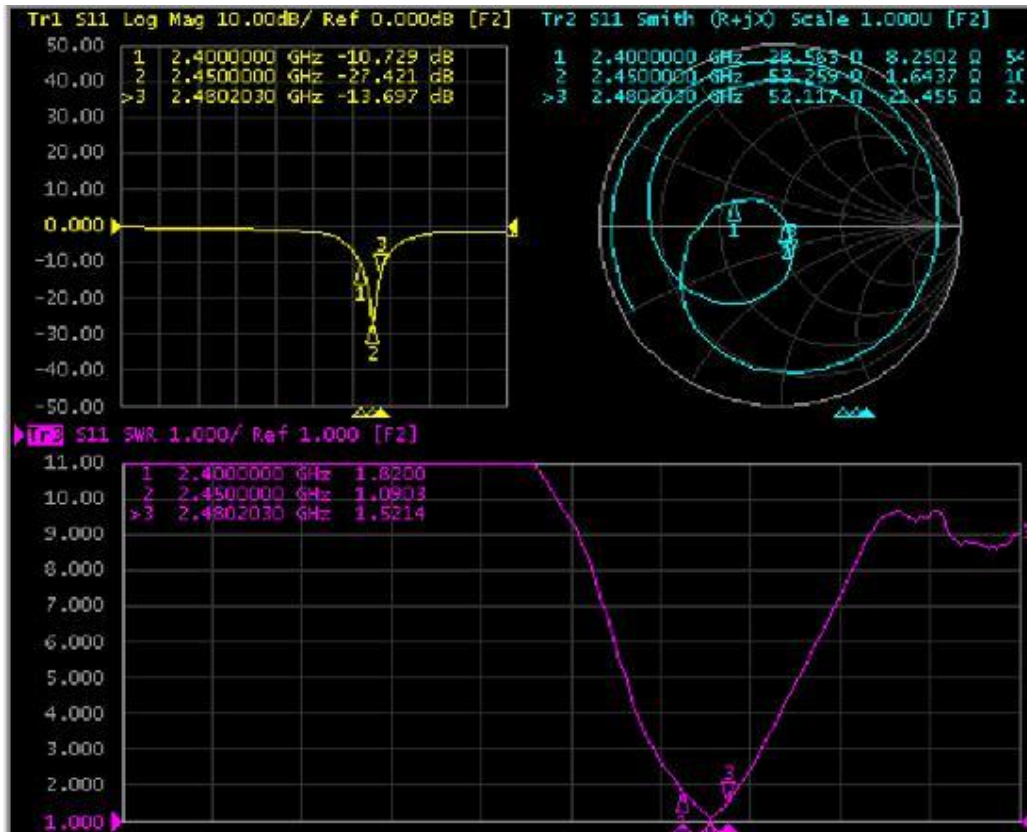
Confidential requirement

Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.

Passive efficiency & gain test:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	60.15	3.30
2410	60.37	3.57
2420	60.86	3.88
2430	59.52	3.97
2440	57.09	4.05
2450	57.41	4.17
2460	56.80	4.20
2470	53.52	3.87
2480	50.75	3.53
2490	48.65	3.27
2500	44.57	2.73

4、VSWR Parameter diagram:

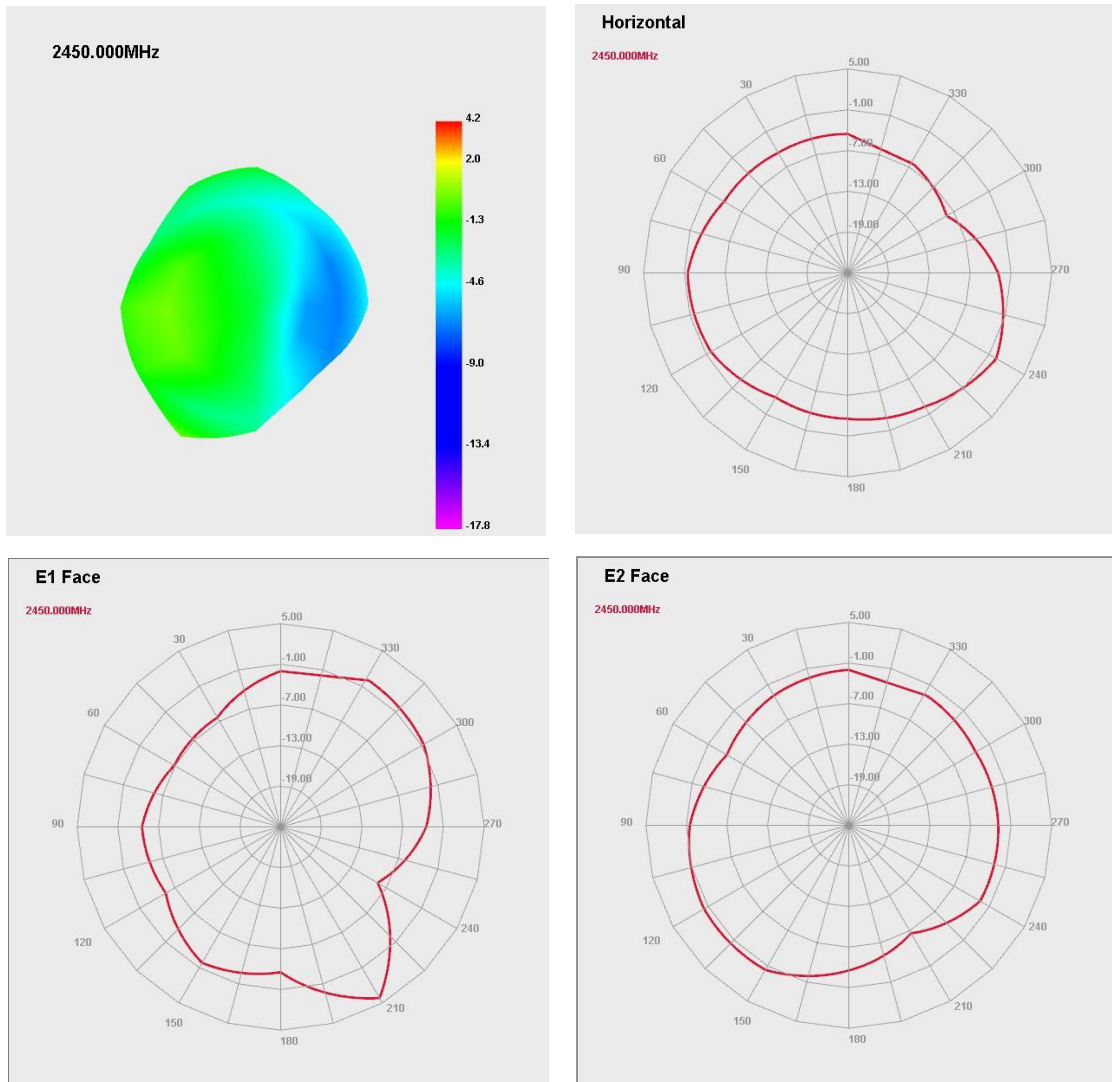


www.Topant.com.cn

Confidential requirement

Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.

5、 2D & 3D Field Map - WIFI 2.4G:



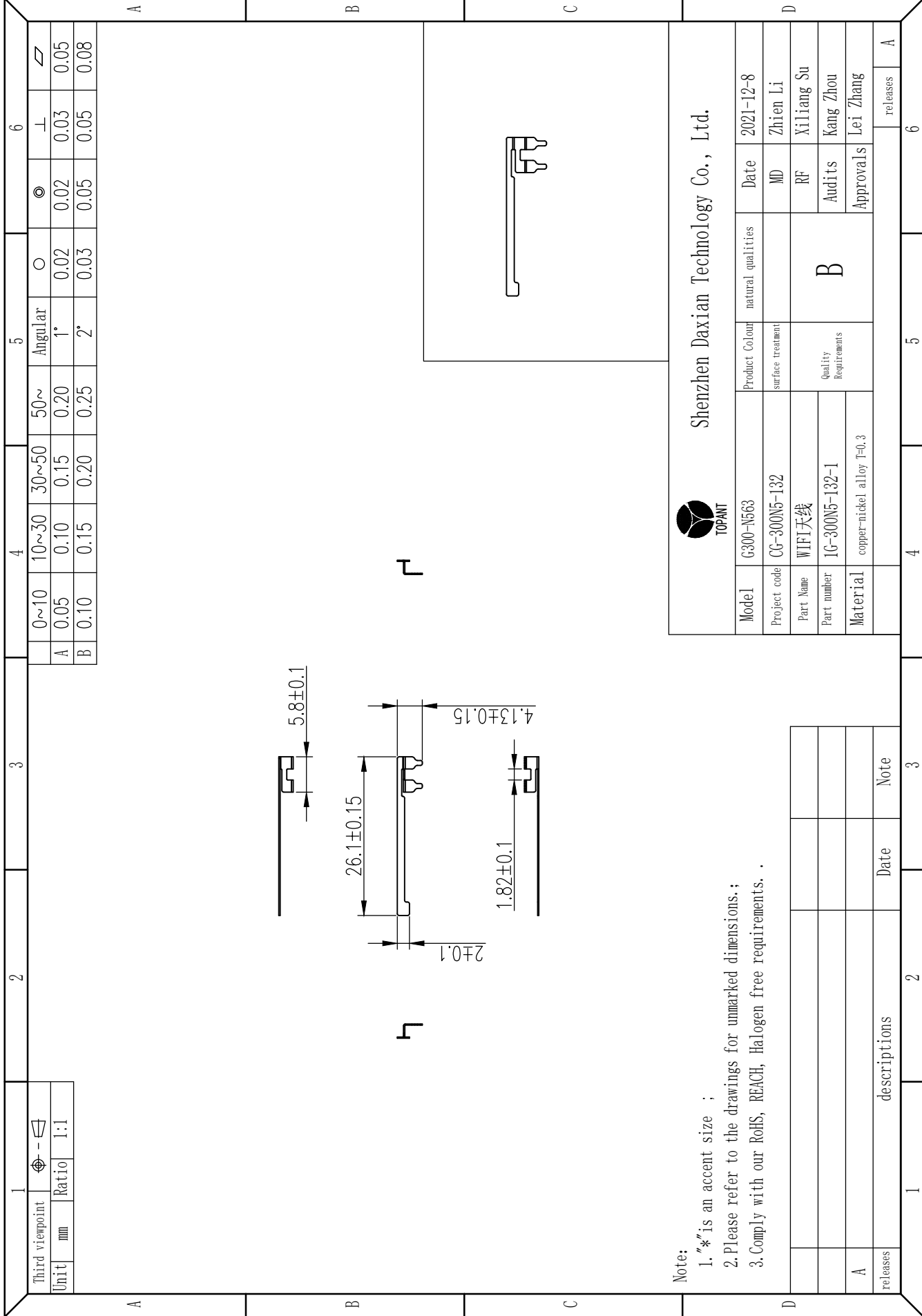
6、 conclusion:

This antenna is designed on the basis of the prototype provided by the customer, electrical parameters and structural performance have reached the technical requirements, please confirm!

www.Topant.com.cn

Confidential requirement

Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.



Note:

1. "*" is an accent size ;
2. Please refer to the drawings for unmarked dimensions.;
3. Comply with our RoHS, REACH, Halogen free requirements. .



Shenzhen Daxian Technology Co., Ltd.

Model	G300-N563	Product Colour	natural qualities	Date	2021-12-8
Project code	CG-300N5-132	surface treatment		MD	Zhien Li
Part Name	WiFi天线	Quality Requirements	B	RF	Xiliang Su
Part number	IG-300N5-132-1			Audits	Kang Zhou
Material	copper-nickel alloy 1-0.3			Approvals	Lei Zhang

releases

descriptions

Date

Note

releases

A

Shenzhen Daxian Technology Co. Ltd.

Sample test report

Sample sending unit: Engineering

2021-12-22

product name		G300-N563 WIFI antenna		Batch quantity		4pcs		Category		<input type="checkbox"/> Mould parts <input type="checkbox"/> Material evaluation			
Material number		1G-300N5-132-1		Number of modules						<input checked="" type="checkbox"/> Sample evaluation <input type="checkbox"/> Other			
Order No.	Picture specification	Gage	Test results								Super difference	Judge	
			One	Two	three	four	five	six	seven	eight		OK	NG
One	5.8±0.10	P	5.82	5.80	5.78	5.84					0	✓	
Two	26.1±0.15	P	26.15	26.10	26.14	26.09					0	✓	
three	2±0.10	P	2.02	2.00	1.98	2.04					0	✓	
four	1.82±0.10	P	1.82	1.85	1.80	1.82					0	✓	
five	4.13±0.15	P	4.15	4.13	4.10	4.17					0	✓	
six													
seven													
eight													
nine													
ten													
elevn													
twelve													
thirteen													
fourteen													
Gage	Visual (E) Calipers (C) Micrometer (M) Projector (P) Thread gauge (Pg)											Final decision	
Code	Network analyzer (Ne) Torsion meter (G) A multimeter (Me) Ruler (F)											OK/NG	
Remarks:	AppearanceOK.												

Form number: QR/RD-P01-08

Approved: Hu Zi yin

Made: LI Chao Hua

Shenzhen Topant Technology Co., Ltd.

1. Basic information:

 Product Name: G300-N563

 Product no.: 1G-300N5-132-1

 Sample size : 30 pcs

 Control paramete SIZP
2. Data measurement:

 Test date: 22/Dec/21

ITEM \ NO.	NO.1	NO.2	NO.3	NO.4	NO.5		
	spec	5.8±0.10mm	26.1±0.15mm	2±0.10mm	1.82±0.10mm	4.13±0.15mm	
USL	5.90	26.25	2.1	1.92	4.28		
LSL	5.70	25.95	1.90	1.72	3.98		
μ	5.80	26.10	2.00	1.82	4.13		
MAX	5.840	26.170	2.040	1.850	4.170		
MIN	5.780	26.070	1.980	1.780	4.080		
1	5.82	26.12	2.00	1.85	4.17		
2	5.80	26.14	2.02	1.82	4.11		
3	5.78	26.08	2.04	1.80	4.10		
4	5.79	26.14	1.98	1.78	4.08		
5	5.84	26.13	1.99	1.84	4.15		
6	5.82	26.12	2.00	1.83	4.13		
7	5.80	26.10	2.01	1.80	4.11		
8	5.82	26.07	2.03	1.82	4.16		
9	5.80	26.09	2.00	1.84	4.17		
10	5.83	26.11	2.04	1.80	4.11		
11	5.82	26.17	2.00	1.85	4.17		
12	5.80	26.12	2.02	1.82	4.11		
13	5.78	26.14	2.04	1.80	4.10		
14	5.79	26.08	1.98	1.78	4.08		
15	5.84	26.14	1.99	1.84	4.15		
16	5.82	26.13	2.00	1.83	4.13		
17	5.80	26.12	2.01	1.80	4.11		
18	5.82	26.10	2.03	1.82	4.16		
19	5.80	26.07	2.00	1.84	4.17		
20	5.83	26.09	2.04	1.80	4.11		
21	5.82	26.11	2.00	1.85	4.17		
22	5.80	26.17	2.02	1.82	4.11		
23	5.78	26.14	2.04	1.80	4.10		
24	5.79	26.13	1.98	1.78	4.08		
25	5.84	26.12	1.99	1.84	4.15		
26	5.82	26.10	2.00	1.83	4.13		
27	5.80	26.07	2.01	1.80	4.11		
28	5.82	26.09	2.03	1.82	4.16		
29	5.80	26.10	2.00	1.84	4.17		
30	5.83	26.15	2.04	1.80	4.11		

3. Data calculation:

No.	No.1	No.2	No.3	No.4	No.5		
Average	5.810	26.115	2.011	1.818	4.129		
σ	0.02	0.03	0.02	0.02	0.03		
Ca	0.10	0.10	0.11	0.02	0.01		
Cp	1.83	1.79	1.66	1.53	1.63		
CPK	1.65	1.62	1.48	1.50	1.62		

4. Conclusion:

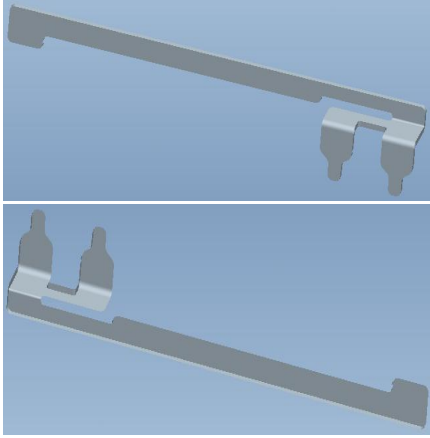
THE CAPABILITY OF PROCESS IS PERFECT STATE, MAINTAIN ACTUALITY.

Approved: Hu Zi yin

Made: LI Chao Hua

Salt spray test record

Number: QR/QC-WI09-01 version B

Test time in <u>2021-12-20 15:00</u> to <u>2021-12-22 15:00</u> total of 48 hours					
(spray time) if there is an interruption, the reason is:					
saline test: test room temperature 35 degrees Celsius, saturated air barrel temperature 47 DEG C C] corrosion test: test room temperature 35 degrees Celsius, saturated air barrel temperature 47 DEG C					
1 sodium chloride quality	99.50%		2 pure water quality	Pure water	
3 spray to take the pH value	Pre atomization 6.5~7.2		4 test solution pH value	6.0	
5 gauge	1.0 Kgf/cm		6 relative humidity in laboratory	30%	
7 test chamber temperature	35 °C		8 pressure barrel temperature	47 °C	
9 brine concentration	5±0.1 %		10 other		
Supplier name	Product name	Sample quantity	Test sample	Test result	Judging basis
<i>Daxian</i>	G300-N563 WIFI antenna	<i>2pcs</i>		<i>Qualified</i>	According to GB6461-2002 standard
Decision: 1 according to the standard sample 2 in accordance with GB6461-2002 standards 3 according to the determination of the sample of the bad limit 4 judging by other methods					
Remarks:					

QC Engineering Drawing

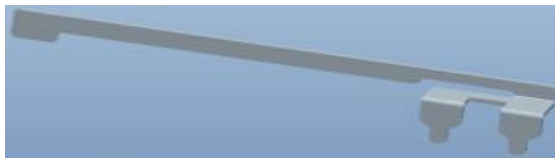
QC Engineering Drawing				Client: order		brand name: cell phone antenna		Version									
Flow chart				Process name		Control items		Reference standards/guidance		Test Methods		Forms/records		serial number:		take upon oneself	
				infeed		electronic weighing scale		Quantity, product name, specification identification,		Incoming Material Inspection Datasheets, Purchase Orders		Sampling (number)		an inventory of received goods		Warehouse Supervisor/IQC	
	Feed Inspection		Calipers, secondary elements, salt spray machine		Appearance, dimensions, reliability		Feed inspection reference book		sampling		IQC incoming material inspection report		IQC				
	store		electronic weighing scale		Quantity, product name, specification identification,		Operating instructions, specifications		full inspection		ledger		warehouse controller				
	receiving materials		electronic weighing scale		Quantity, product name		work instruction		full inspection		material requisition form		warehouse controller Production Leader				
	repackaging		manual work		Quantity, name, marking		work instruction		full inspection		production daily sheet		operator				
	FQC Inspection		visual		view sth from the outside		FQC, OQC operation specification		Sampling or full inspection		FQC Inspection Record		FQC				
	wrap		baler		Quantity, name, marking		work instruction		full inspection		production daily sheet		operator				
	store		carts		Quantity, name, marking		work instruction		work instruction		inventory list		Warehouse Clerk/Production				
	OQC Inspection		Calipers, secondary elements		Size, appearance,		Finished product inspection reference books, drawings, samples		Sampling or full inspection		OQC inspection report		OQC				
	extract		trucks		Quantity, name, marking		work instruction		work instruction		delivery note		Operations/Warehouse Clerk				

Remarks: With reference to the antenna structure design specification in the preliminary draft of the antenna structure type and our antenna products actual type, the QC engineering diagrams according to the antenna structure of the major categories of integration and differentiation for the general guidelines, single PPC, radiator as the structure of the antenna is relatively simple, only for the incoming inspection and after the packaging and shipment of the QC engineering diagrams are not used as QC engineering drawings. The QC engineering drawings as inspection and production guidance documents must be supported with engineering drawings, operation instructions, inspection instructions, samples and so on.

Symbol Description	Quantity check workstation operation	Quality Inspection	Quality Inspection	Date of revision	license	calibrate	compile
	Preservation	2021.12.25	ZiYin.Hu	ZiYin.Hu	ZiYin.Hu	ZiYin.Hu	Chaohua.Li

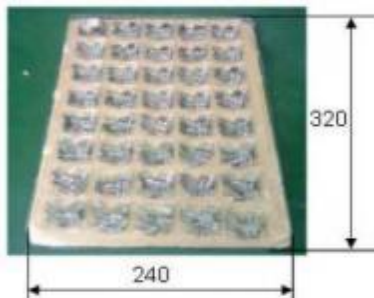
Packaging

1: Packaging Specifications1: WIFI Antenna;



2: Tray, 32 compartments per tray, 10pcs per compartment, total 320pcs/tray (other specifications of blister tray quantity can be adjusted)

Example diagram:



3: Packing, in units of 20 trays, with two layers of plywood on the top and bottom, with transparent adhesive.



4: Packed, sealed and ROSH labeled.



Transportation requirements:

When the product packaging pieces are transported, they should be moisture-proof, breakage-proof and pollution-proof.

Storage requirements:

Product packaging parts should be stacked in the warehouse, the warehouse should be dry, ventilated and clean.

www.Topant.com.cn

Confidential requirement

Shenzhen Daxian limited company of science and technology has proprietary technology to provide information, which should be kept strictly confidential and proprietary information, without the prior written consent of Shenzhen Daxian Co. Ltd. are not allowed to disclose to any person or company.