

Project :Y230410307

Date.2023.11.14

REV: A0-1114

Antenna SPEC

Customer name: DNAKECustomer project: 170SD-C26Customer P/N: 419900000141B&T P/N: 79300014Spec.: internal antenna -2.4 / 5G-shrapnel-L18.1×W3.93×H12.1
×T0.3mm

Sealed by corporation:

compilation	ver if y	approval
Huangfe i hui	Lv j i e	Liul i hua

Sealed by customer:

check	verify	approval

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Economic Development Zone, Mianyang City, Sichuan Province**

Form no. : B&T- qr-en-002 version: B3

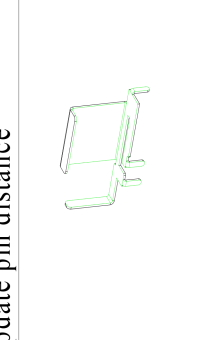
Form no. : B&T- qr-en-002 version: B3

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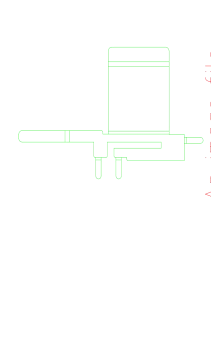
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3、 Product drawing

REV.	Date	Revise
A0	23-05-22	
A0-1110	23-11-10	Update shrapnel
A0-1114	23-11-14	Update pin distance



3D



An image file

Designer	internal antenna	-2.4 / 5G-shrapnel-L18.1×W3.93×H12.1×T0.3mm
Verify	Tanghailing	Project No. Y230302273
Approval		Part No. 79300014
		Weight Quantity Scale Unit
1 > X	±0.05	1:1 mm
1~9.99	±0.10	Page 1 of 1
10~19.99	±0.15	
20~39.99	±0.20	
40~	±0.30	

Technical requirements:

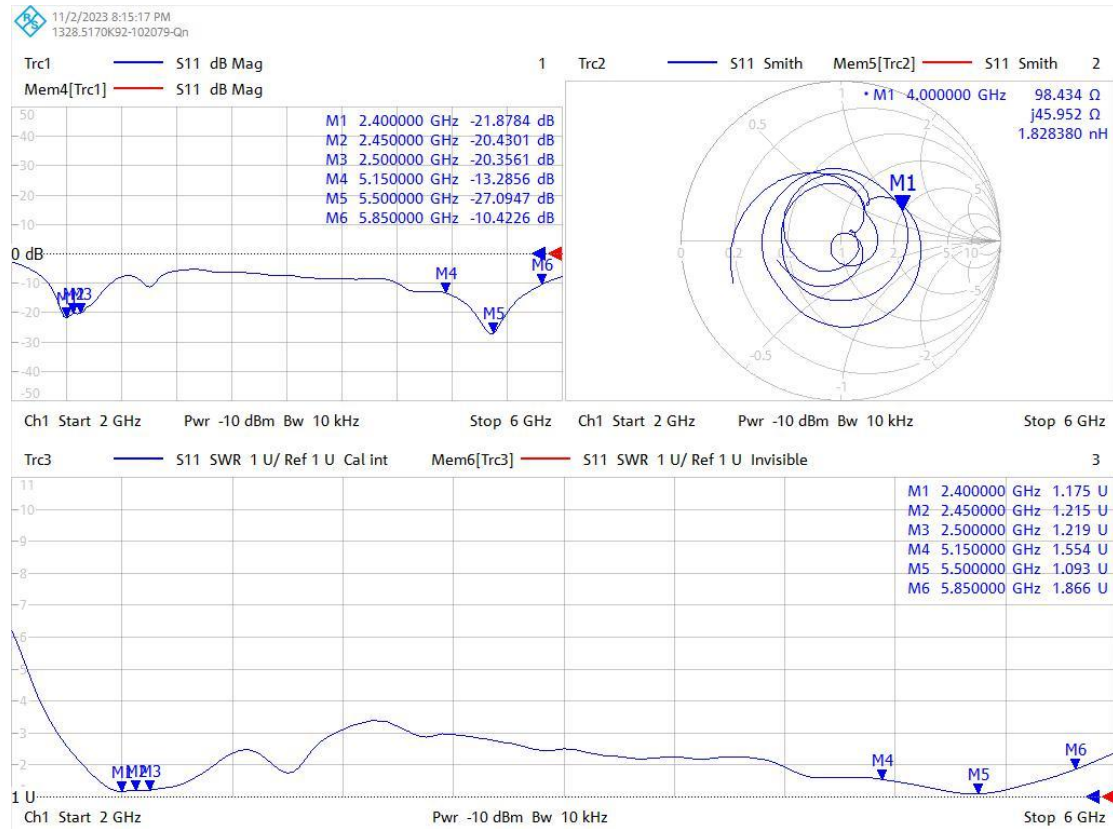
1. Technical requirements:
1. Material: SUS 304(3/4H, >370HV), 0.3mm thick;
2. Parts surface plating (nickel: 30μin 60min); 24 hours of salt spray test.
3. Important dimensions shall be marked with "*" (would making shall be controlled and would acceptance shall be tested).
4. No burr scratches, oil stains, residues or other undesirable phenomena on the surface of the product.
5. The maximum burr shall not exceed 0.05mm and the knife mark shall not exceed 0.10mm.
6. The printing depth shall not exceed 0.05mm and the height shall be 1.0mm to 2.0mm.
7. In the process of packaging and transportation, the products shall not be damaged, scratched or damaged.
8. Packaging and quality standards refer to boontong packaging specifications and quality standards respectively.
9. The product must meet the requirements of ROHS2.0.

4、Properties ¶meter

Electrical Parameter	
Freq Range	2400~2500/5150~5850MHz
Characteristic Impedance	50 Ω
Used in machines VSWR	≤ 2
The Max input power	<10w
Polarization mode	Polar linearization
Radiation mode	Omni directional
Antenna style	shrapne
Mechanics Properties	
Shrapne Length	18.1 $\pm$ 0.3mm
Salt spray test	24H
Environment parameter	
Operating Temp	-40 $^{\circ}$ C~85 $^{\circ}$ C

5、Electrical test report (Fitting machine test)

S11 Parameter



Electrical Performance Test Parameter Table

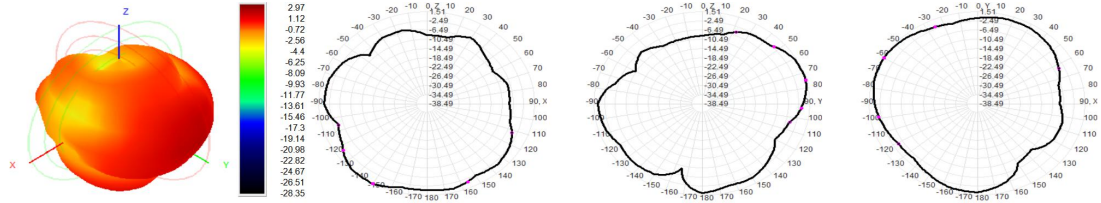
Freq/GHz	2.4	2.45	2.5	5.15	5.5	5.85
VSWR	1.17	1.21	1.21	1.55	1.09	1.86

Gain & efficiency

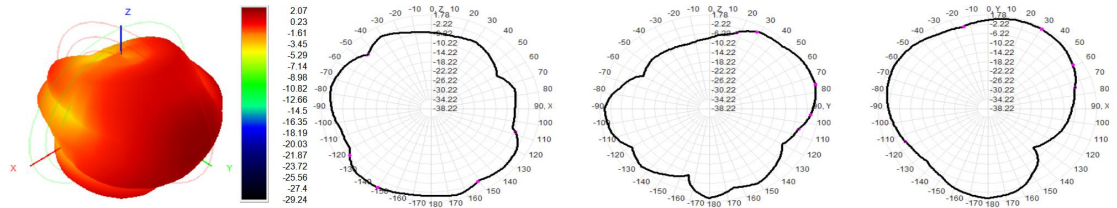
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-2.95	2.97	50.65
2410	-2.93	2.84	50.96
2420	-2.83	2.71	52.08
2430	-2.83	2.44	52.08
2440	-2.82	2.29	52.28
2450	-2.82	2.07	52.24
2460	-2.85	1.92	51.92
2470	-2.87	1.87	51.66
2480	-2.86	1.84	51.74
2490	-2.89	1.90	51.42
2500	-2.93	1.97	50.96
5000	-2.18	4.22	60.52
5050	-2.12	4.23	61.44
5100	-1.94	3.62	64.01
5150	-2.28	3.04	59.19
5200	-2.03	2.96	62.72
5250	-1.78	3.70	66.36
5300	-2.05	3.63	62.42
5350	-1.99	4.13	63.26
5400	-1.67	4.28	68.09
5450	-1.74	4.30	66.93
5500	-2.30	3.00	58.91
5550	-2.04	3.33	62.54
5600	-1.83	4.31	65.68
5650	-2.49	2.35	56.41
5700	-2.92	2.61	51.05
5750	-2.45	2.69	56.86
5800	-2.87	3.06	51.65
5850	-3.69	2.96	47.11

Direction diagram

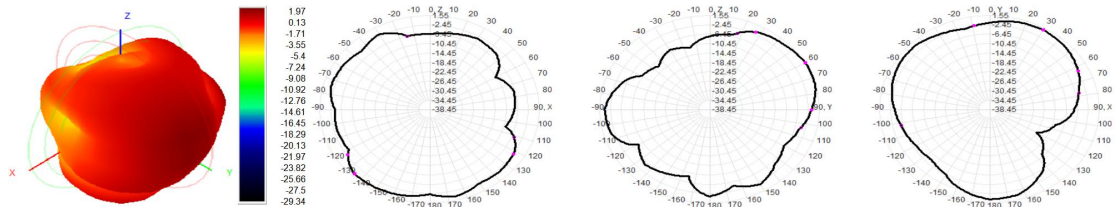
2400MHz



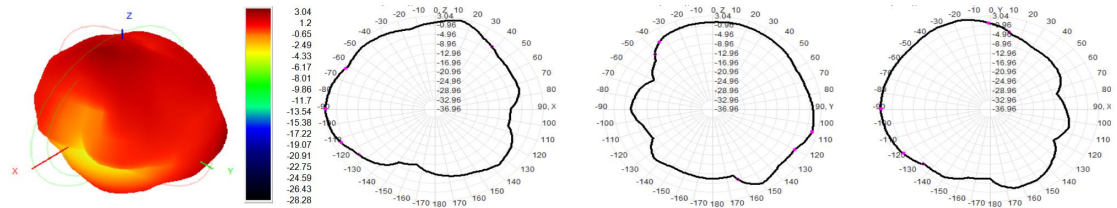
2450MHz



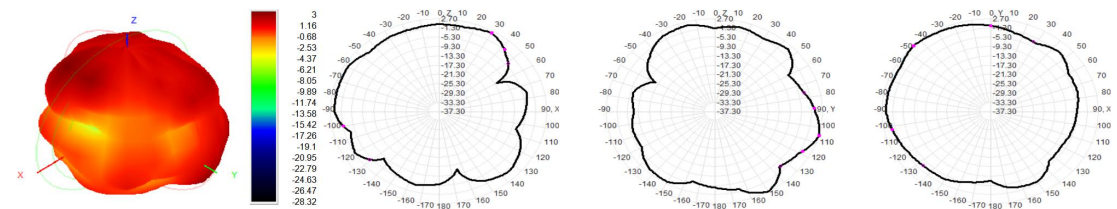
2500MHz



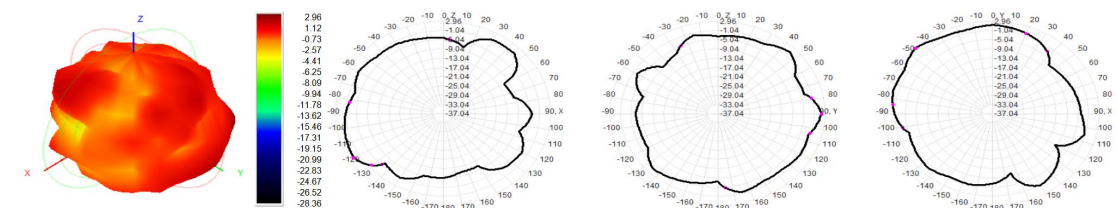
5150MHZ



5500MHZ



5850MHZ



6、Table of Materials and Hazardous Substances

Items are	specifications	The material	RoHS The inspection results (PPM)						ICP Test number	Detection time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
2	shrapnel	SUS304	ND	ND	ND	ND	/	/	CANEC2302568106	2023/3/2
		Nickel plating	ND	69	ND	ND	ND	ND	CANEC2300336913	2023/1/12

PACKING CRITERION

P/N: 79300014

Spec.: internal antenna -2.4 / 5G-shrapnel-L18.1×W3.93×H12.1×T0.3mm

一、contents of label(according to the customer's name, refer to the corresponding finished product label production requirements. If there is no requirement, it will follow the ordinary label requirements.)

Label for PE bag/ carton, L:10cm;W:6cm

buyer	*****		
vender	Sichuan B&T Communication Technology Co., Ltd.		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****.***
Trace code	*****	Running water number	*****

Label for PE bag/ carton, L:10cm;W:6cm

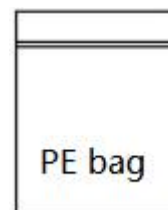
buyer	*****		
vender	Sichuan B&T Communication Technology Co., Ltd.		
Purchase No	*****		
Material No.	*****		
Part name	*****	QC	**
Q'ty/Unit	*****	Manufacture date	****.***
Trace code	*****	Running water number	*****

二、Packing requirement

Operating description:

1. inner packing:

Quantity according to actual packing PCS/ tray,

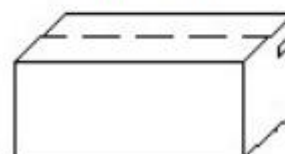


2. outer packing:

Quantity according to actual packing PCS/carton



Carton



Notice:

8、 Installation diagram of complete antenna

