

Project :Y230410307

Date.2023.06.09

REV: A0-0609

Antenna SPEC

Customer name: DNAKECustomer project: 904M-S61Customer P/N: 419900000151B&T P/N: 74220181Spec.: internal antenna -2.4G-Black-1.13 wire-terminal-L=140mm-shrapnel-53.95×11.9×5.2mm

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

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3、Product drawing

REV.		Date	Revise
A0	23-5-23		
A0-0608	23-6-8		Update dimensions

The technical requirements

1: the antenna welding part is firm, and the cable size is accurate; (Cable maintenance force $\geq 1\text{Kg}$).

2: "※" important dimensions;

3: Packaging and quality standards refer to BAT packaging specifications quality standards respectively;

4: Products must meet the requirements of ROHS 2.0;

5: The cup of terminal orientation requirement .

Number	Part name	Note
①	Generation 1	
②	RF terminal	
③	Coaxial line	
④	Strapnel	
⑤	EVA foam	

Designer	Duqinling	Weight	Quantity	Scale	Unit
Verify				1:1	mm
Approval					
1 > X	±0.05				
1~9.99	±0.10				
10~19.99	±0.15				
20~39.99	±0.20				
40~	±0.30				

1	internal antenna -2.4G-Black-L13
2	wire-terminal-L=140mm-shrapnel-L=53.95×11.9×5.2mm
3	Project No. Y230410307
4	Part No. 74220181

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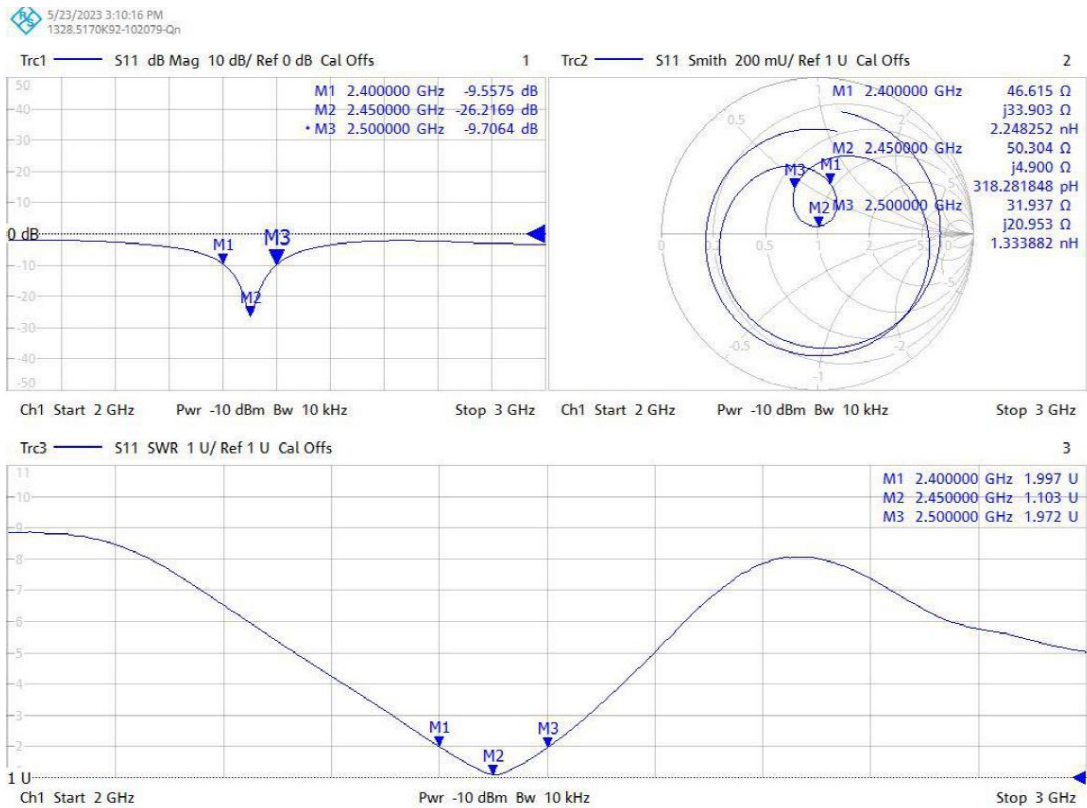
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co., Ltd

4、Properties ¶meter

Electrical Parameter	
Freq Range	2400~2500MHz
Characteristic Impedance	50 Ω
Used in machines VSWR	<4.5
The Max input power	<10w
Polarization mode	Polar linearization
Radiation mode	Omni directional
Connector style	Generation 1 RF terminal
Antenna style	shrapne
Mechanics Properties	
Length	140 \pm 3mm
Maintain the force	\geq 1kgf
Coaxial cable	Black 1.13 wire
Salt spray test	24H
Environment parameter	
Operating Temp	-30 $^{\circ}$ C~65 $^{\circ}$ C

5、Electrical test report (Fitting machine test)

S11 Parameter



Electrical Performance Test Parameter Table

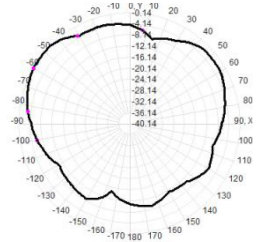
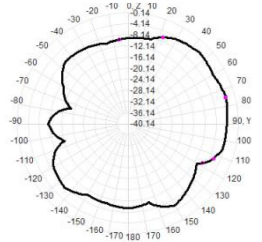
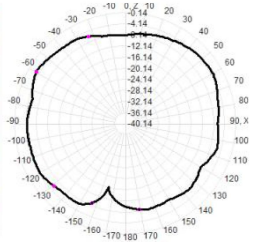
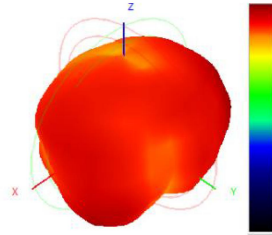
Freq/GHz	2.4	2.45	2.5
VSWR	1.99	1.10	1.97

Gain & efficiency

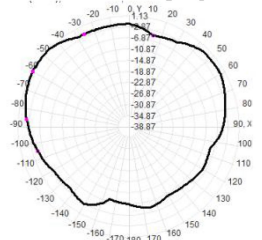
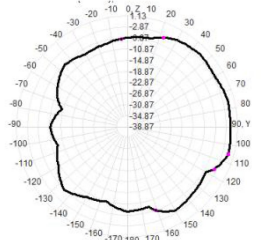
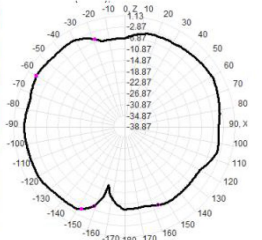
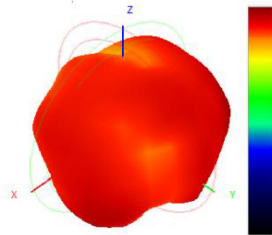
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	0.30	30.72
2410.0	0.36	31.98
2420.0	0.72	31.63
2430.0	0.95	34.18
2440.0	1.13	36.47
2450.0	1.21	37.63
2460.0	1.33	38.68
2470.0	1.39	39.10
2480.0	1.37	38.98
2490.0	1.18	38.33
2500.0	0.82	36.46

Direction diagram

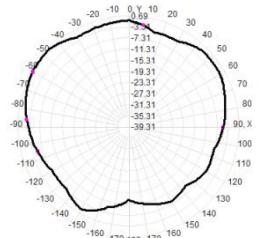
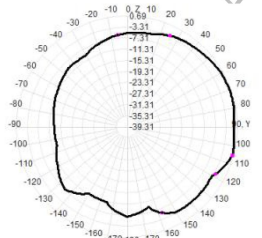
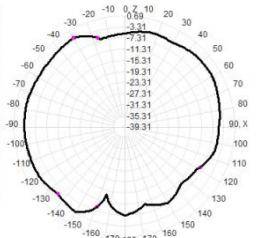
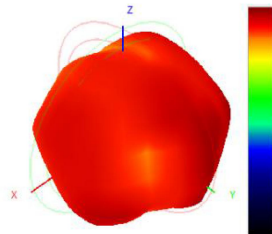
2400M 3D-E1-E2-H



2450M 3D-E1-E2-H



2500M 3D-E1-E2-H



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		
1	1.13 line	FEP	ND	ND	ND	ND	ND	ND	NGBMR23000169901	2023/2/6
		Tin plated copper wire	ND	ND	ND	ND	ND	ND	CANEC23000141401	2023/2/13
2	shrapnel	Stainless steel	ND	ND	ND	ND	/	/	CANEC2302568106	2023/3/2
		Nickel plating	ND	69	ND	ND	ND	ND	CANEC2300336913	2023/1/12
3	terminal	PBT	ND	ND	ND	ND	ND	ND	NGBEC22001678609	2022/6/8
		Phosphor bronze	ND	ND	ND	ND	ND	ND	CANEC2301145809	2023/2/8
4	Foam	EVA	ND	ND	ND	ND	ND	ND	A2230019314101001	2023/1/19

PACKING CRITERION

P/N: 74220181

Spec.: internal antenna -2.4G-Black-1.13 wire-terminal-L=140mm-shrapnel-53.95×11.9×5.2mm

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	*****

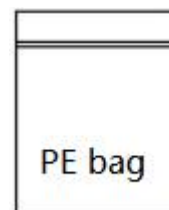
二、Packing requirement

Operating description:

1. inner packing:

20 PCS/ small bag,

100 PCS/ big bag

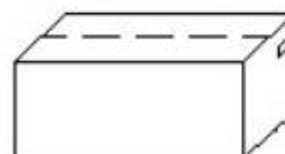


2. outer packing:

Quantity according to actual packing PCS/carton



Carton



Notice: