

Project :Y202206160776

Date.2023.02.15

REV: A1

Antenna SPEC

Customer name: SHINING3D

Customer project: Fabwash

Customer P/N:

Model & P/N: 74300063

Spec.: internal antenna -2.4 / 5G-Gray-1.13

wire-terminal-L=160mm-PCB-45.1×8.5×0.6mm

Sealed by corporation:

compilation	verify	approval
Huangfeihui	Liulihua	Liulihua

Contact information of B&T:

Contact person for sales: Zhongquniao	MB:13094238568	E-mail: zhongqy@tech-now.com
Contact person for technical: Liulihua	MB:13590104459	E-mail: liulh@tech-now
Contact person for Quality: Zengkang	MB:18188400229	E-mail: zengk@tech-now.com

SUPPLIER: Sichuan B&T Communication Technology Co., Ltd.

**ADD:Room No. 2 and 3, 5F, Building 8, No. 218, Wenwu Middle Road, Tangxun Street,
Economic Development Zone, Mianyang City, Sichuan Province**

Customer Name: Shining 3D Tech Co., Ltd.

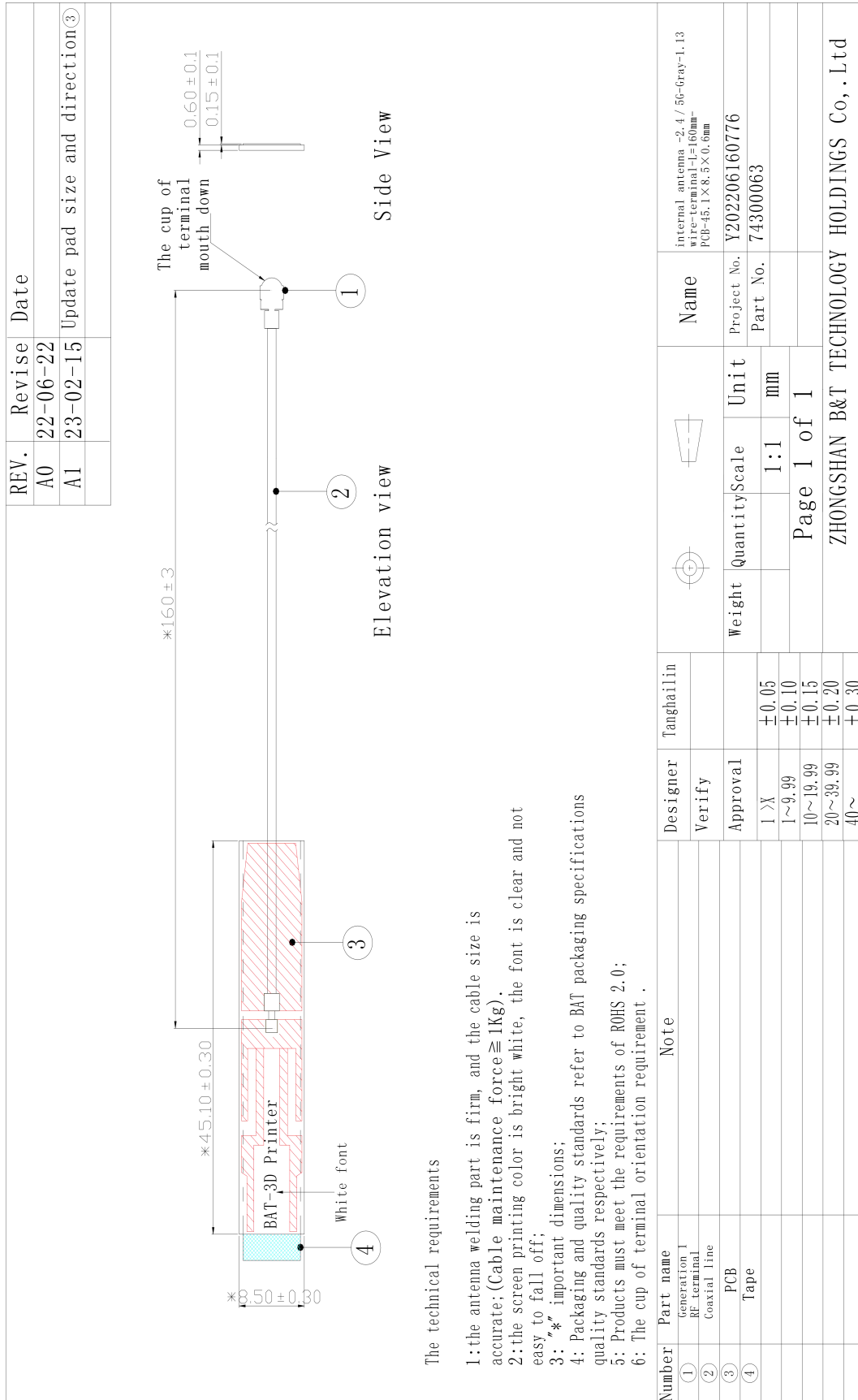
Customer address: No.1398 Xiangbin Road, Wenyan, Xiaoshan, Hangzhou, Zhejiang, China

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

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3、Product drawing

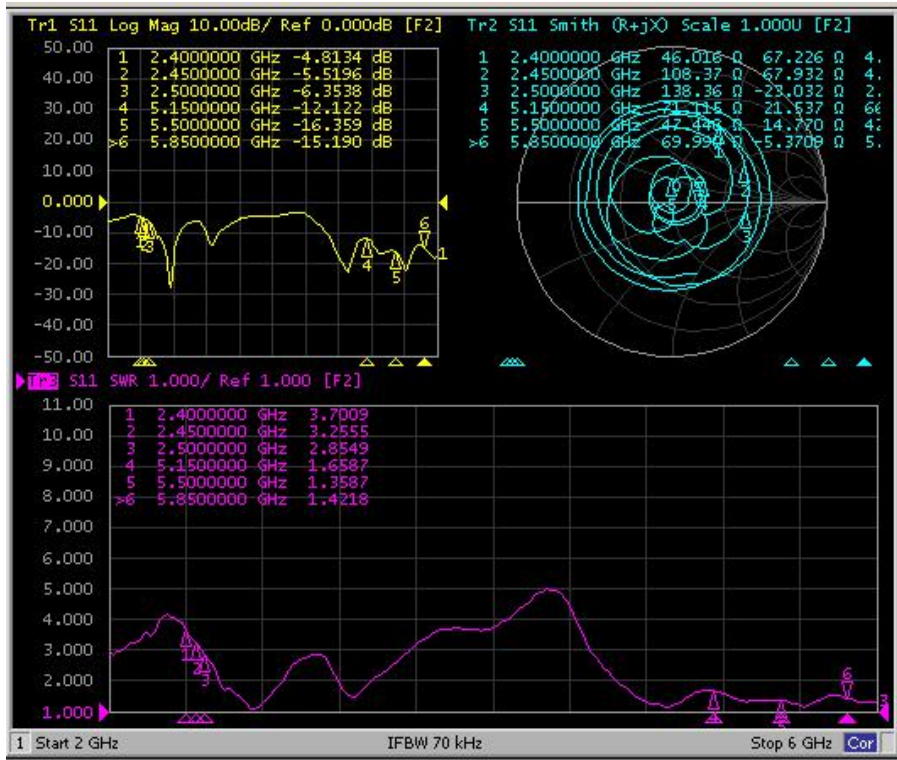


4、 Properties ¶meter

Electrical Parameter	
Freq Range	2400~2500/5150~5850MHz
Characteristic Impedance	50 Ω
VSWR	sample of reference project
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	160 ± 3mm
Maintain the force	≥1kgf
Coaxial cable	Gray 1.13 wire
Salt spray test	24H
Environment parameter	
Operating Temp	-30℃~65℃

5、Electrical test report (Fitting machine test)

S11 Parameter



Electrical Performance Test Parameter Table

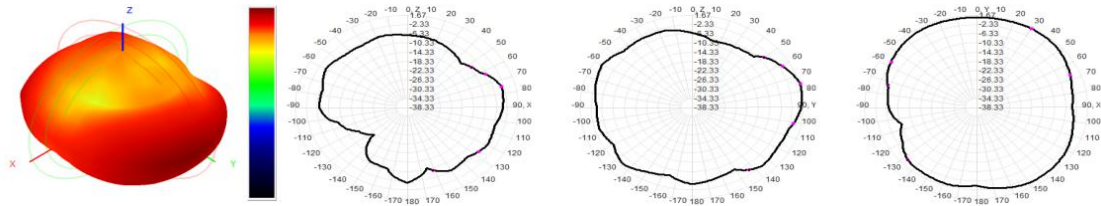
Freq	2400MHz	2450MHz	2500MHz	5150MHz	5500MHz	5850MHz
VSWR	3.70	3.25	2.84	1.65	1.35	1.42

Gain & efficiency

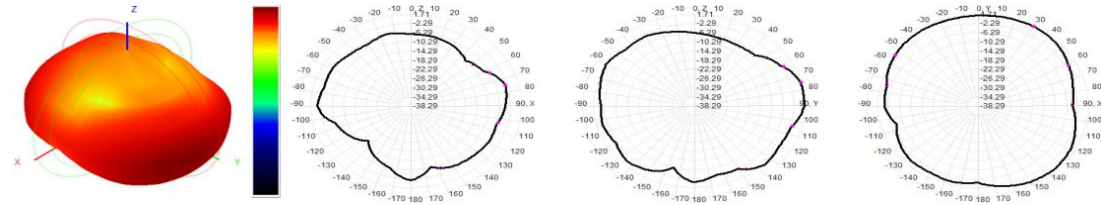
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.40	42.51
2410.0	2.28	42.72
2420.0	2.19	43.45
2430.0	2.17	43.92
2440.0	2.11	43.19
2450.0	2.23	43.20
2460.0	2.35	43.49
2470.0	2.47	44.22
2480.0	2.31	43.09
2490.0	2.24	43.59
2500.0	2.24	45.38
5150.0	3.36	51.35
5200.0	3.52	52.10
5250.0	3.30	50.30
5300.0	2.99	49.81
5350.0	3.25	52.05
5400.0	3.13	47.06
5450.0	3.39	47.24
5500.0	3.88	50.67
5550.0	3.78	50.84
5600.0	3.78	51.75
5650.0	4.09	54.19
5700.0	4.28	55.82
5750.0	4.03	52.24
5800.0	3.98	52.17
5850.0	3.94	54.15

Direction diagram

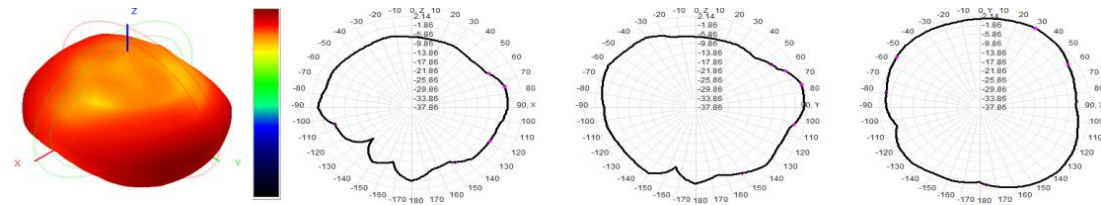
2400M 3D-E1-E2-H



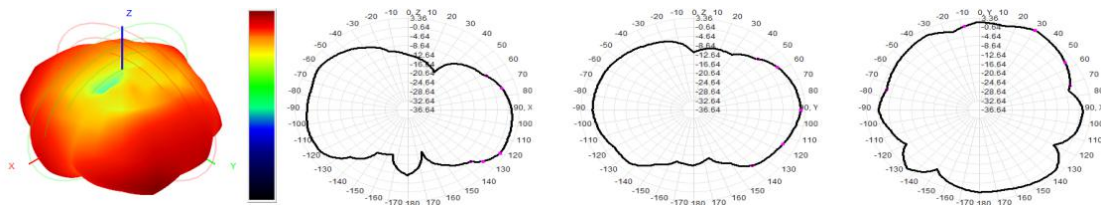
2450M 3D-E1-E2-H



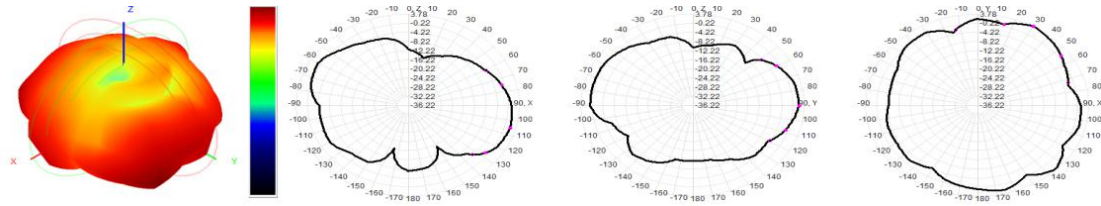
2500M 3D-E1-E2-H



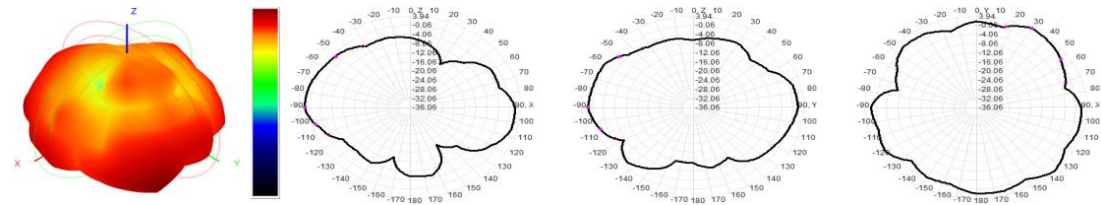
5150M 3D-E1-E2-H



5500M 3D-E1-E2-H



5850M 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	NGBML2200124302	2022/1/27
		Tin plated copper wire	ND	ND	ND	ND	ND	ND	CANEC2113747201	2021/7/30
2	PCB	FR-4	ND	ND	ND	ND	ND	ND	NGBML2105022602	2021/10/27
3	terminal	PBT	ND	ND	ND	ND	ND	ND	ETR21801381	2021/8/12
		Phosphor bronze	ND	5	ND	ND	ND	ND	CANEC2201952008	2022/2/18
4	Tape	tape	ND	ND	ND	ND	ND	ND	A2220041546101002	2022/2/10

PACKING CRITERION

P/N: 74300063

Spec.: internal antenna -2.4 / 5G-Gray-1.13 wire-terminal-L=160mm-PCB-45.1×8.5×0.6mm

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	*****

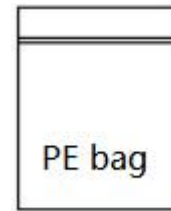
二、Packing requirement

Operating description:

1. inner packing:

 50 PCS/ small bag,

 200 PCS/ big bag

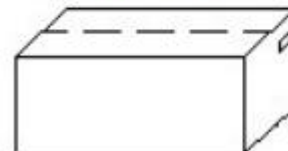


2. outer packing:

Quantity according to actual packing PCS/carton



Carton



Notice:

8、 Picture of the antenna

