



中山市博安通通信技术有限公司

ZHONGSHAN B&T TECHNOLOGY Co.,Ltd

零件规格承认书

Approval Specification

正式 ☒ / 条件 ☐

类型: Type: 2.4 / 5.8G 内置天线

范例 R3 代码: R3 Code: 850292352

范例图号: Part Number: TX-DM200BD113B63M

发行日期 Issued Date: 2024.04.03

文件编号 Document NO.:

核准 Approval by	审核 Check by	撰写 Prepared by
LiHui	Liulihua	Huangfeihui

Contact person for sales: Longmingguo	MB:18576042661	E-mail: longmg@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

Project :Y202104090061/2

Date. 2024.04.03

REV: A3

Antenna SPEC

Customer name: 广东长虹Customer project: 长虹电视系Part Number: 850292352B&T P/N: AG-041533-2215Spec.: 2.4 / 5.8G Internal antenna(shrapnel 30 × 11 × 5.2)-Black
line 1.13-terminal, see line length 185mm

Sealed by corporation:

compilation	ver if y	approval
Huangfeihui	Liulihua	Lihui

Contact information of B&T:

Contact person for sales: Longmingguo	MB:18576042661	E-mail: longmg@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

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

Contents

1、 Cover·····	1
2、 Index of specification·····	3
3、 Product drawing·····	4
4、 Electrical Parameter·····	5
5、 Electrical test report·····	6-8
6、 Packing Specification·····	9
7、 Antenna photo·····	10

3、Product drawing

REV.		Revise	Date
A0		22-02-18	
A1		23-9-20	Update ④ 3M RP45

The technical requirements

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

2: "*" important dimensions;

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

4: Products must meet the requirements of ROHS;

5: The cup of terminal no orientation requirement .

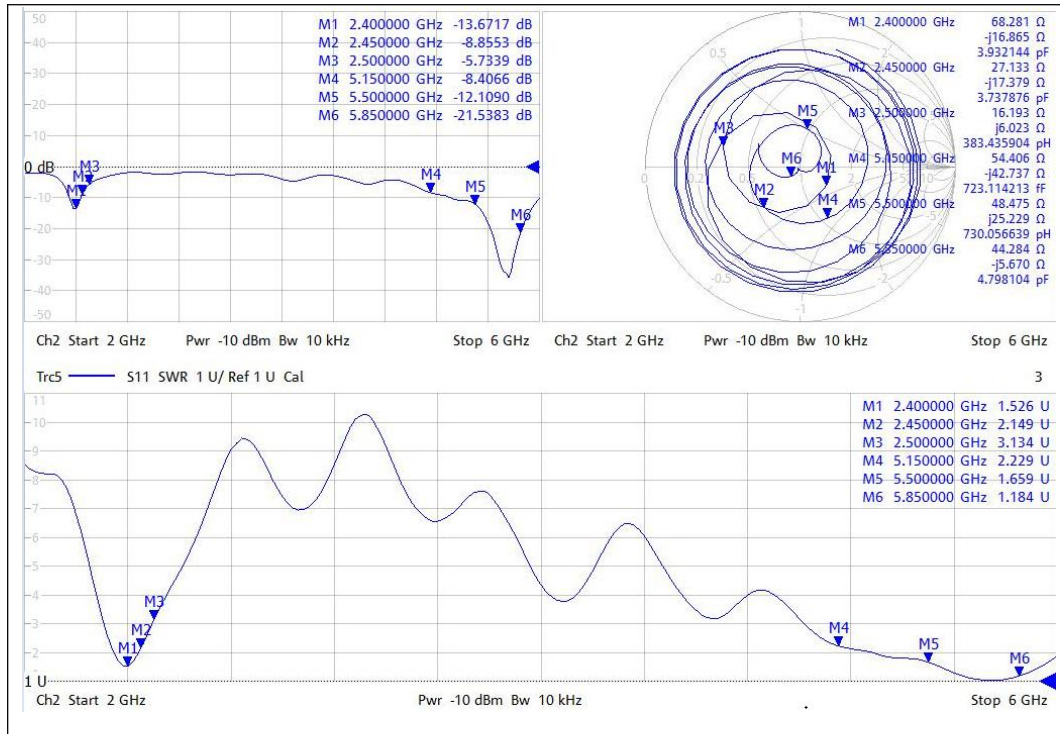
Number	Part name	Material/technology	Note	Designer	Verify	TanhaiLin	Weight	Quantity	Scale	Unit	Name	Project No.	Part No.
①	Coaxial line	Double tin /FBP/Black									2.4 / 5.8G Internal antenna (shrapnel 30×11×5.2)-Black line 1.13-terminal, see line length	185202104090061	
②	shrapnel	SUS304 T=0.30mm											
③	Support foam tape	EVA											
④	Fixed foam tape	foam 3M RP45											
⑤	sleeve	Heat shrinkable sleeve											
⑥	Generation 1 RF terminal	Phosphor bronze (gold-plated)	gold-plated (thickness 10 μ)	1 >X	1 ~9.99	± 0.05			1:1	mm			
				10 ~19.99	± 0.10	± 0.15			Page 1 of 1				
				20 ~39.99	± 0.20	± 0.30			ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co., Ltd				
				40 ~									

4、Properties ¶meter

Electrical Parameter		
Freq Range		2400~2500MHz/5150-5850MHz
Characteristic Impedance		50 Ω
VSWR		sample of reference project
Max gain	2.4G	1.29dBi
	5.8G	3.45dBi
The Max input power		<10w
Polarization mode		Polar linearization
Radiation mode		Omni directional
Antenna Type		PIFA
Connector style		IPEX terminal
Mechanics Properties		
Length		See line length $185 \pm 3\text{mm}$ /Bus line length $200 \pm 3\text{mm}$
Maintain the force		$\geq 1\text{Kgf}$
Coaxial cable		Black1.13 double tin wire
Salt spray test		24H
Environment parameter		
Operating Temp		$-30^{\circ}\text{C} \sim 65^{\circ}\text{C}$

5、Electrical test report

S11 Parameter



Electrical Performance Test Parameter Table

Freq/MHz	2400MHz	2450MHz	2500MHz	5150MHz	5550MHz	5850MHz
VSWR	1.52	2.14	3.13	1.52	1.65	1.18

Efficiency&Gain

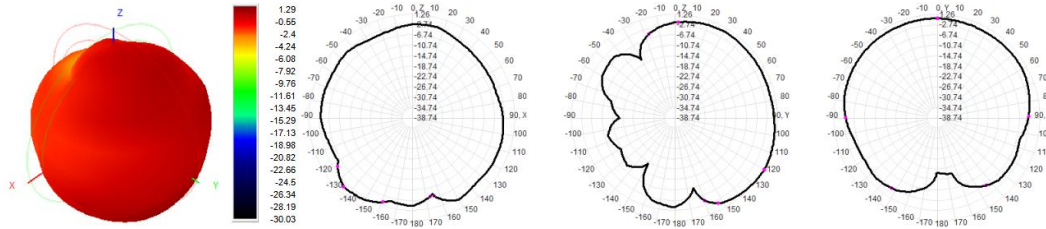
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.07	1.29	49.33
2410.0	-3.15	1.24	48.40
2420.0	-3.23	1.06	47.55
2430.0	-3.40	0.71	45.72
2440.0	-3.69	0.26	42.78
2450.0	-3.86	0.04	41.07
2460.0	-4.04	-0.14	39.46
2470.0	-4.17	-0.16	38.26
2480.0	-4.32	-0.37	36.97
2490.0	-4.83	-0.84	32.85
2500.0	-4.96	-0.91	31.93

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
5150.0	-3.98	1.14	39.96
5250.0	-3.80	1.70	41.71
5350.0	-3.59	2.20	43.75
5450.0	-3.50	2.48	44.69
5550.0	-3.36	2.22	46.17
5650.0	-3.45	2.54	45.20
5750.0	-3.38	3.27	45.89
5850.0	-3.54	3.45	44.21

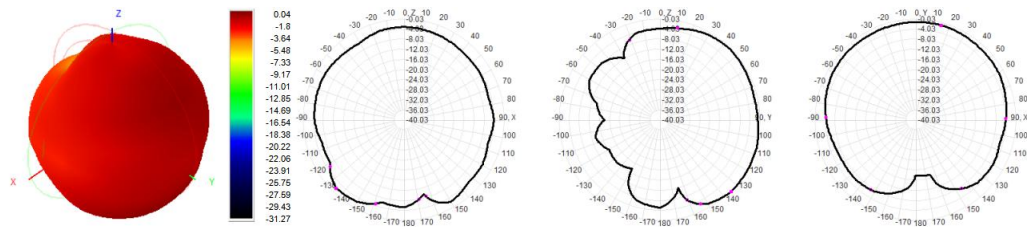
Radiation pattern

ANT-2.4G-1-2D-3D

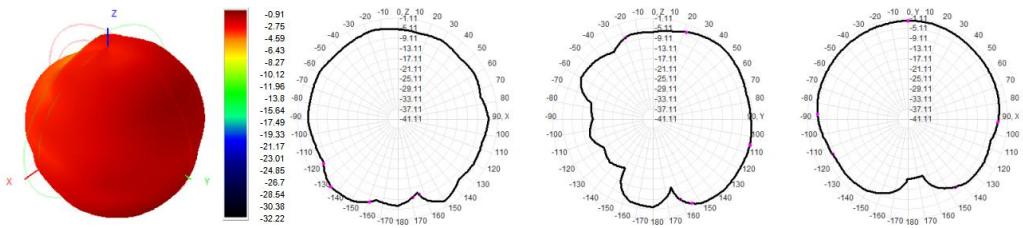
2400MHz



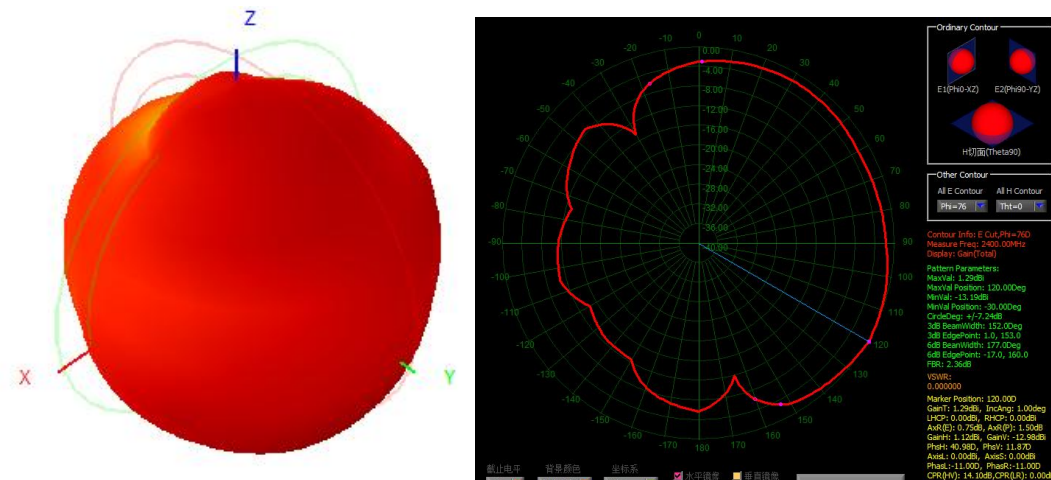
2450MHz



2500MHz

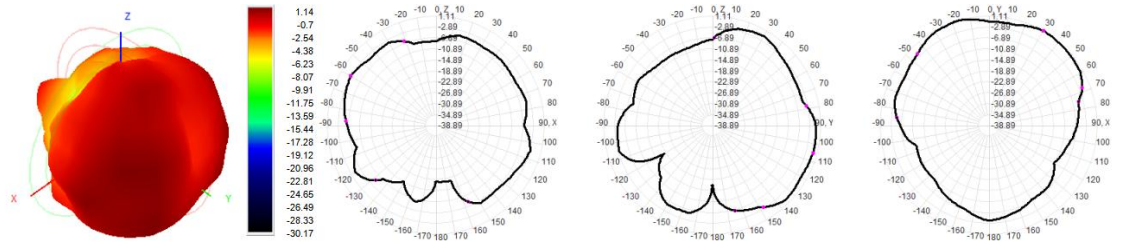


2400-2500MHz Max gain 2400MHz 1.29dbi

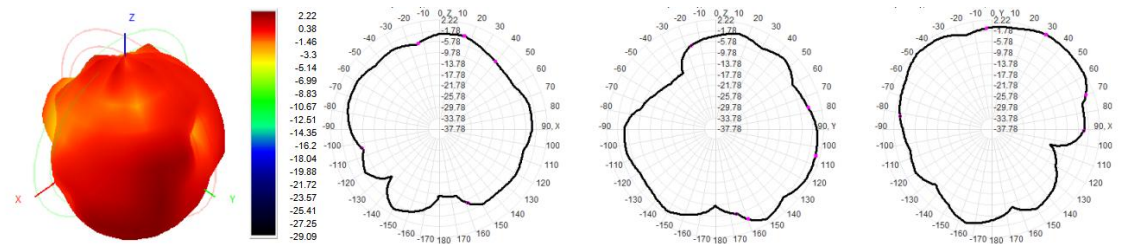


ANT-5.8G-1-2D-3D

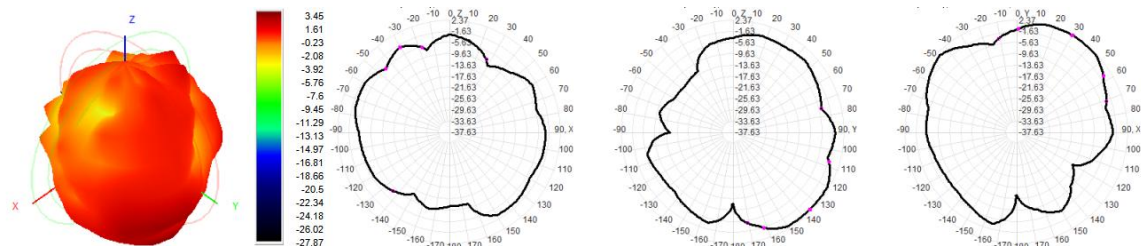
5150MHz



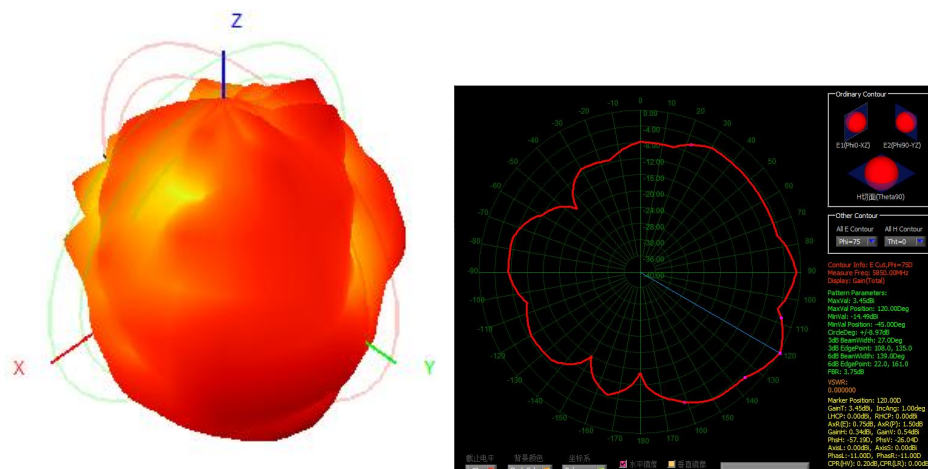
5550MHz



5850MHz



5150-5850MHz Max gain 5850MHz 3.45dbi



PACKING CRITERION

P/N: AG-041533-2214

Spec.: 2.4 / 5.8G Internal antenna(shrapnel $30 \times 11 \times 5.2$)-Black line 1.13-terminal, see line length 185mm



包装承认书多项物
料20220629.doc>

Packing requirement

7、Antenna photo



公司名称：四川博安通通信技术有限公司

公司中文地址：中国四川省绵阳市经开区塘汛街道文武中路218号8幢5层2、3号

公司英文名：Sichuan B&T Technology Co., Ltd.

公司英文地址：No.2&3, 5/F, Building 8, No.218, Wenwu Middle Road, Tangxun Street,
Economic Development Zone, Mianyang, Sichuan Province, P.R.China