



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: 850292403

范例图号: Part Number: TX-DM270BD113B63M

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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

Date.2024.04.03

REV: A3

Antenna SPEC

Customer name: 广东长虹

Customer project: 长虹电视系

Part Number: 850292403

B&T P/N: AG-041533-2216

Spec.: 2.4 / 5.8G Internal antenna(shrapnel 30 × 11 × 5.2)-Black
line 1.13-terminal, see line length 225mm

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

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3、Product drawing

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

①

②

③

④

⑤

⑥

Ø1.13

*30.0±0.30

*11.0±0.30

*5.2±0.30

*255±3 (Line length 270mm)

Release paper pull ear position

The technical requirements

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

2: "*" important dimensions;

3: Packaging and quality standards refer to BAT packaging specifications

4: Products must meet the requirements of ROHS ;

5: The cup of terminal no orientation requirement .

Number	Part name	Material/technology	Note
①	Coaxial line	Double tin /RFP/Black	
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")

Tanghailin		Designer		Verify		Approval		1 > X		1 ~ 9.99		10 ~ 19.99		20 ~ 39.99		40 ~			
Weight	Quantity	Scale	Unit	Weight	Quantity	Scale	Unit	Weight	Quantity	Scale	Unit	Weight	Quantity	Scale	Unit	Weight	Quantity	Scale	Unit
		1 : 1	mm			1 : 1	mm			1 : 1	mm			1 : 1	mm			1 : 1	mm

Page 1 of 1

ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co.,.Ltd

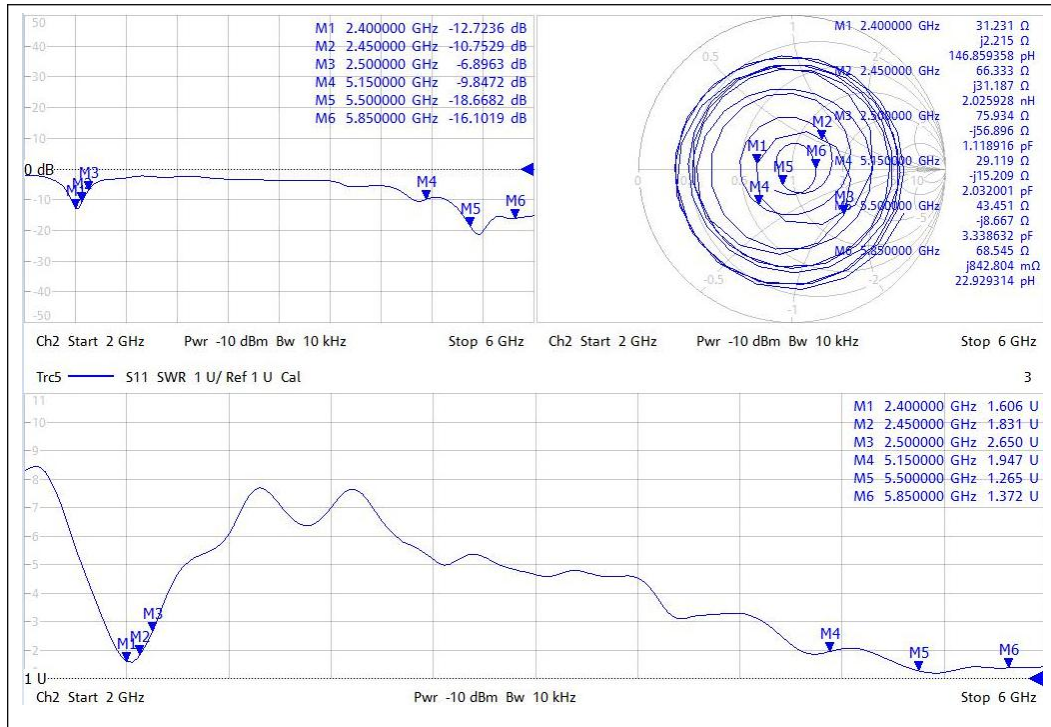
Name		Project No.		Part No.	
2.4 / 5.8G Internal antenna(shrapnel 30×11×5.2)-Black line 1.13-terminal, see line length 225mm		Y202104090061		AG-041533-2216	

4、Properties & parameter

Electrical Parameter		
Freq Range		2400~2500MHz/5150-5850MHz
Characteristic Impedance		50 Ω
VSWR		sample of reference project
Max gain	2.4G	0.90dBi
	5.8G	3.38dBi
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 $255 \pm 3\text{mm}$ /Bus line length $270 \pm 3\text{mm}$
Maintain the force		$\geq 1\text{Kgf}$
Coaxial cable		Black 1.13 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	1.60	1.83	2.65	1.94	1.26	1.37

Efficiency & Gain

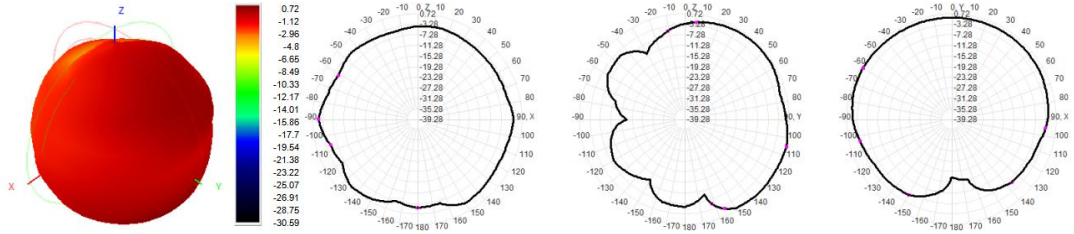
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.29	0.72	46.92
2410.0	-3.16	0.90	48.29
2420.0	-3.28	0.82	47.04
2430.0	-3.25	0.82	47.34
2440.0	-3.23	0.81	47.49
2450.0	-3.38	0.57	45.88
2460.0	-3.48	0.44	44.83
2470.0	-3.69	0.24	42.72
2480.0	-3.91	0.05	40.69
2490.0	-4.02	0.04	39.63
2500.0	-4.38	-0.46	36.44

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
5150.0	-5.97	-0.50	25.32
5250.0	-6.20	-0.72	24.01
5350.0	-4.99	0.59	31.70
5450.0	-4.13	1.64	38.60
5550.0	-3.88	1.87	40.97
5650.0	-3.58	1.73	43.83
5750.0	-3.38	2.90	45.96
5850.0	-3.47	3.38	44.96

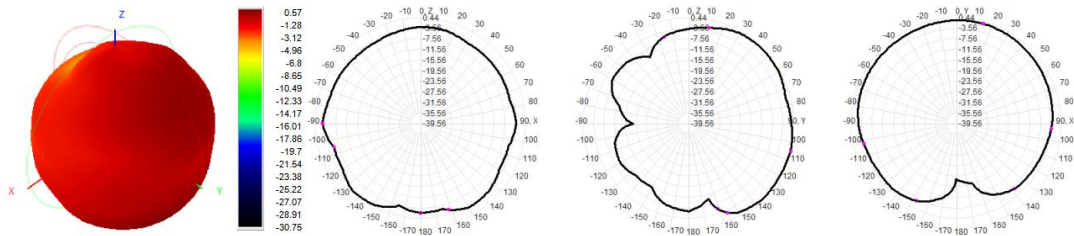
Radiation pattern 2400Mhz

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

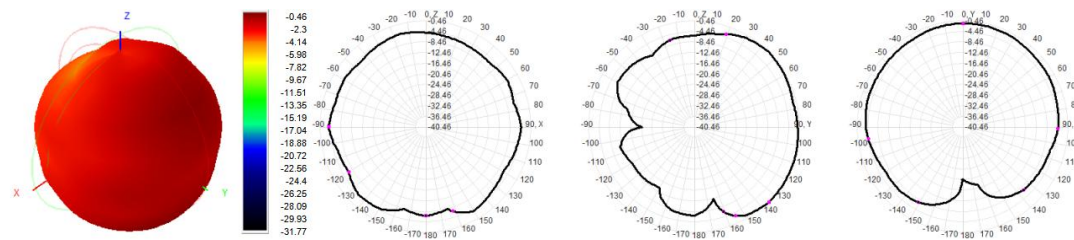
2400MHz



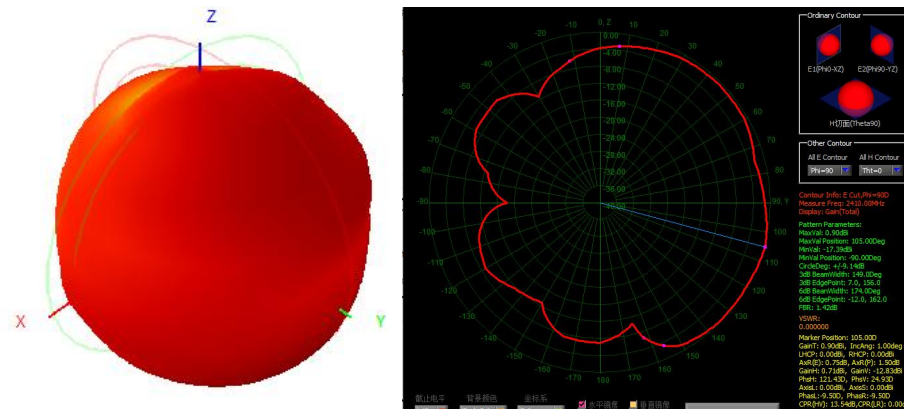
2450MHz



2500MHz

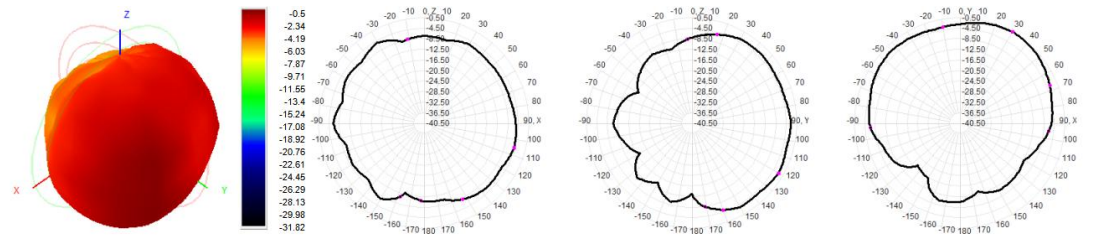


2400-2500MHz Max gain 2410MHz 0.90dbi

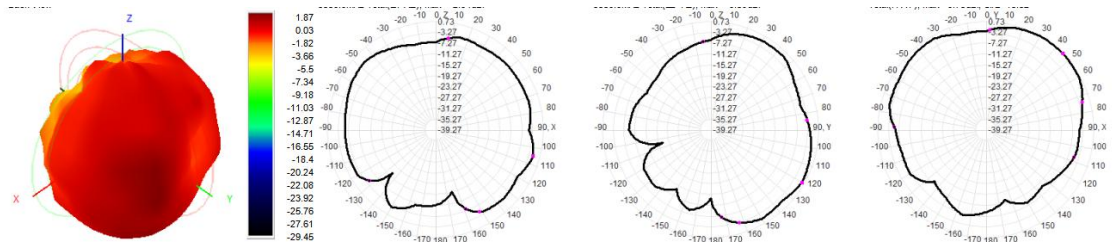


ANT-5.8G-1-2D-3D

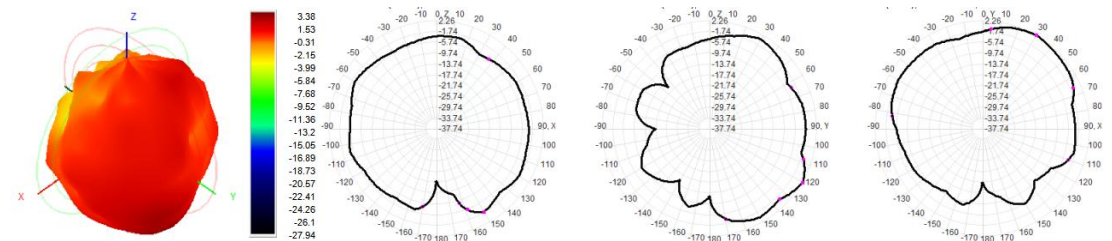
5150MHz



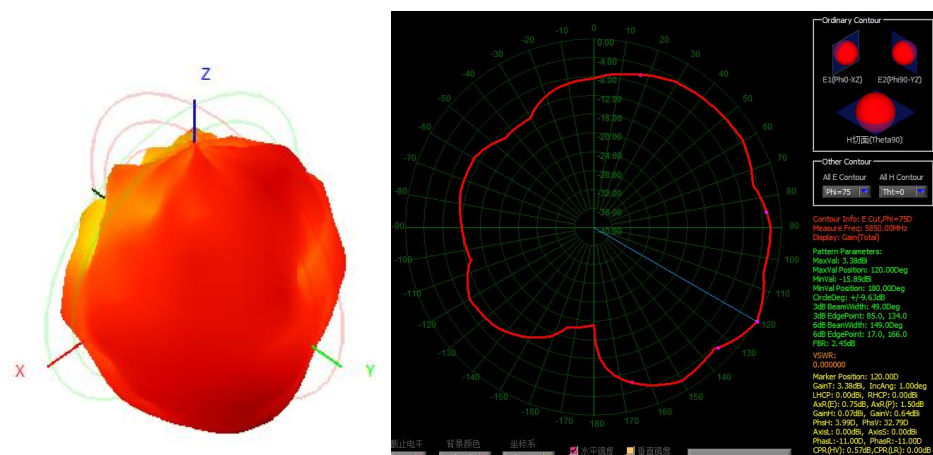
5550MHz



5850MHz



5150-5850MHz Max gain 5850MHz 3.38dbi



PACKING CRITERION

P/N: AG-041533-2216

Spec.: 2.4 / 5.8G Internal antenna(shrapnel $30 \times 11 \times 5.2$)-Black line 1.13-terminal, see line length 225mm



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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