



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: 850294981

范例图号: Part Number: TX-DM150BD113B63M

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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: 850294981

B&T P/N: AG-041533-2214

Spec.: 2.4 / 5.8G Internal antenna(shrapnel 30 × 11 × 5.2)-Black
line 1.13-terminal, see line length 135mm

Sealed by corporation:

compilation	ver if y	approval
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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

The technical requirements

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

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
①	Coaxial line	Double tin /FFP/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 μ)

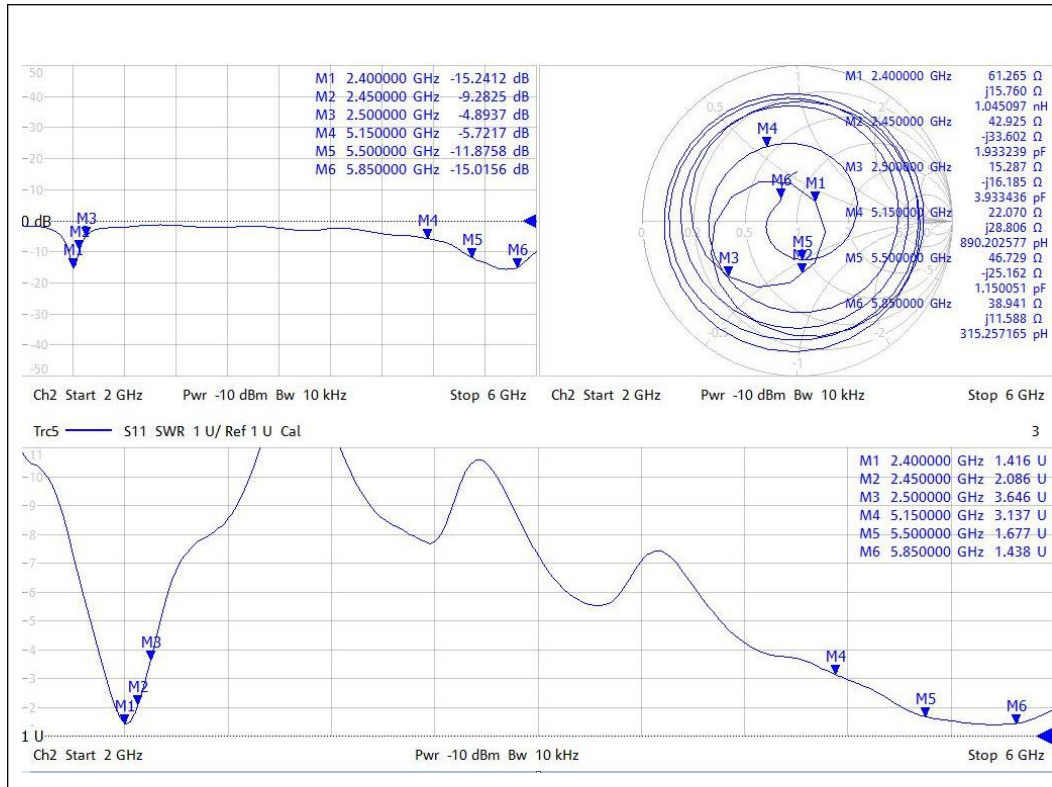
Name		Unit	
2.4 / 5.86 Internal antenna(shrapnel 30×11×5.2)-Black line 1.13-terminal, see line length 135mm		Project No.	Y202104090061
		Part No.	AG-041533-2214
		Weight	1 : 1
		Quantity	1 : 1
		Scale	1 : 1
		mm	
		Page 1 of 1	
		ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co.,.Ltd	

4、Properties & parameter

Electrical Parameter		
Freq Range		2400~2500MHz/5150-5850MHz
Characteristic Impedance		50 Ω
VSWR		sample of reference project
Max gain	2.4G	1.46dBi
	5.8G	2.81dBi
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 $135 \pm 3\text{mm}$ /Bus line length $150 \pm 3\text{mm}$
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	1.41	2.08	3.64	3.13	1.67	1.43

Efficiency&Gain

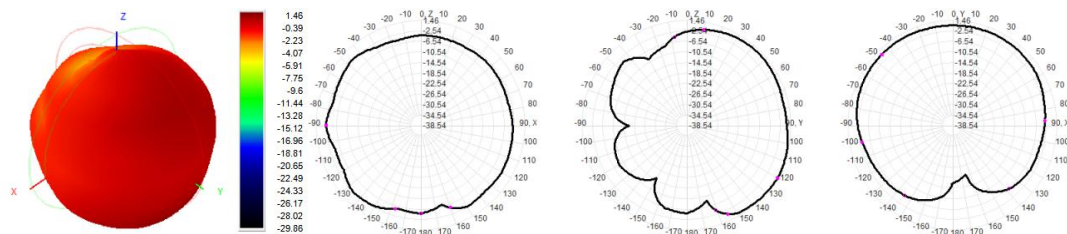
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-2.74	1.46	53.19
2410.0	-2.72	1.26	53.49
2420.0	-2.73	1.09	53.32
2430.0	-2.82	0.87	52.19
2440.0	-3.04	0.65	49.67
2450.0	-3.20	0.44	47.83
2460.0	-3.46	0.16	45.11
2470.0	-3.69	-0.05	42.80
2480.0	-3.91	-0.25	40.63
2490.0	-4.24	-0.56	37.64
2500.0	-4.51	-0.78	35.37

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
5150.0	-6.55	-0.87	22.15
5250.0	-5.77	0.20	26.49
5350.0	-4.68	1.53	34.03
5450.0	-3.73	2.47	42.36
5550.0	-3.11	2.78	48.81
5650.0	-3.01	2.64	50.04
5750.0	-3.18	2.81	48.07
5850.0	-2.95	2.74	50.72

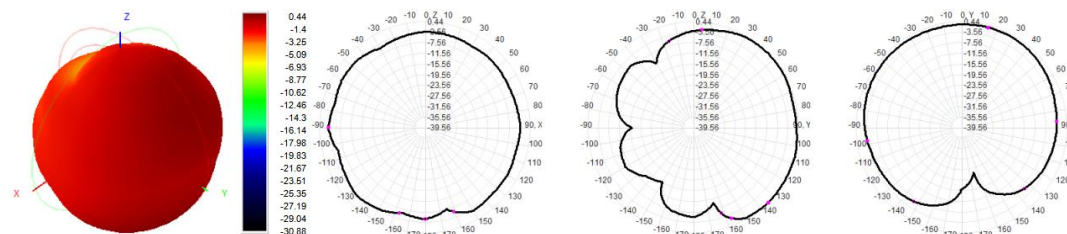
Radiation pattern

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

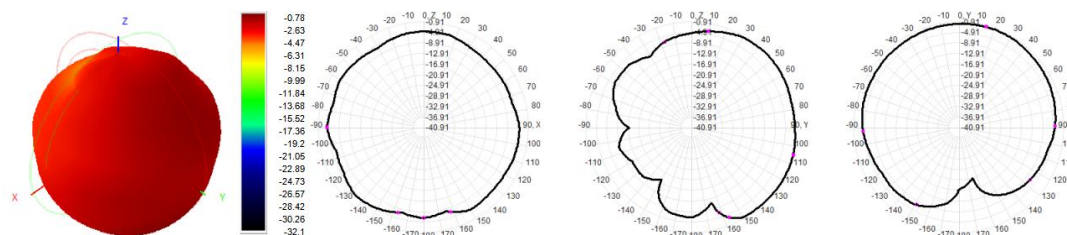
2400MHz



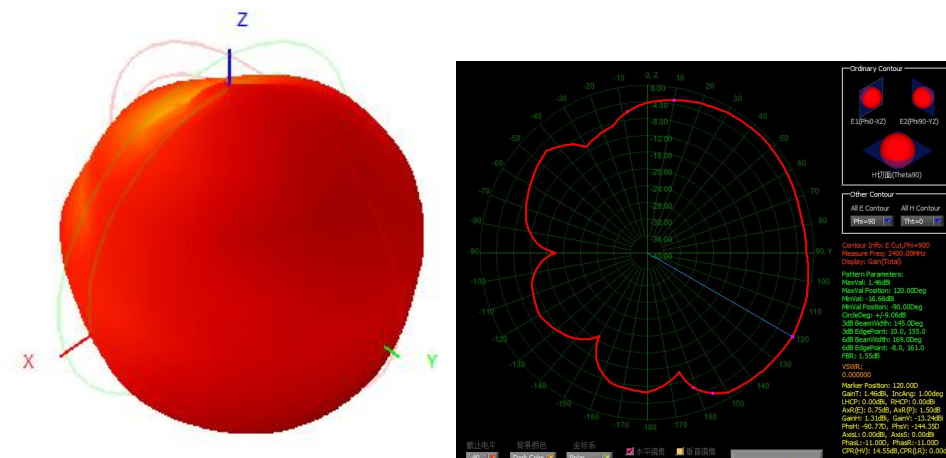
2450MHz



2500MHz

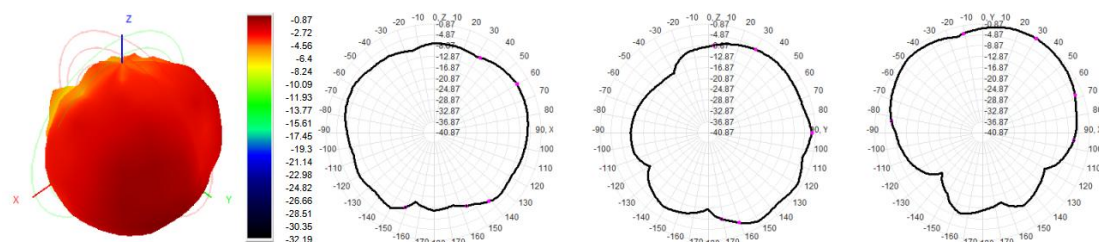


2400-2500MHz max gain 2400MHz 1.46dbi

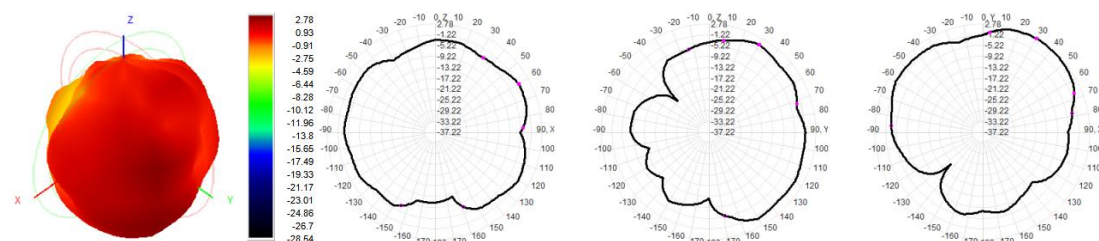


ANT-5.8G-1-2D-3D

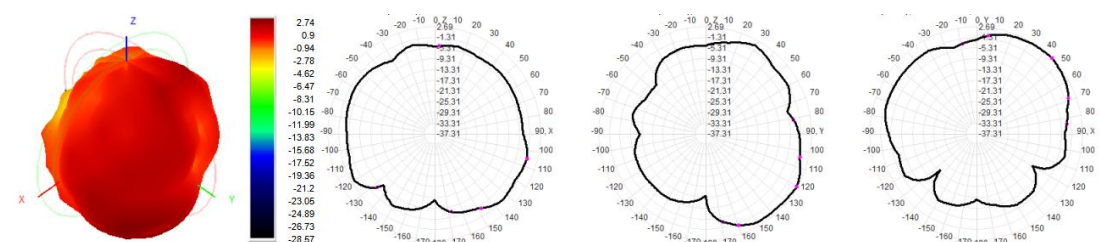
5150MHz



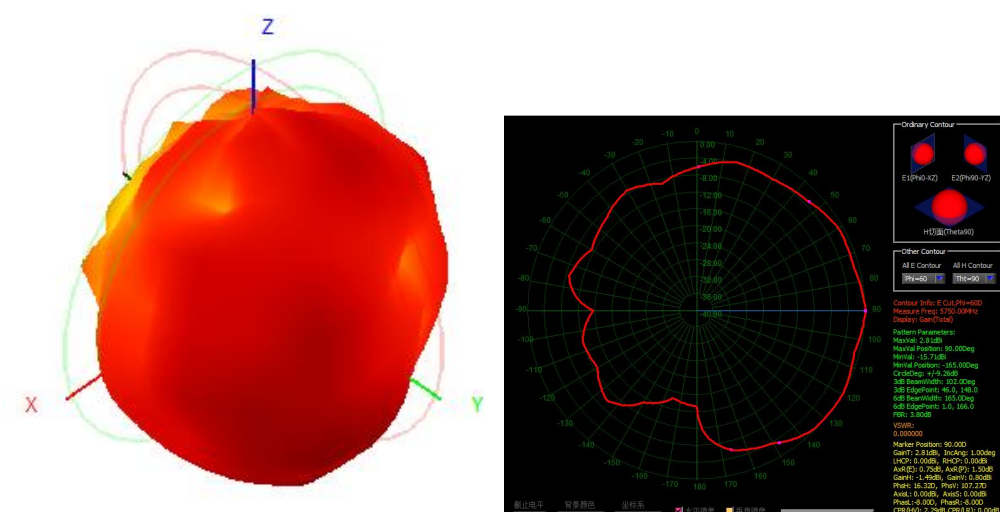
5550MHz



5850MHz



5150-5850MHz max gain 5750MHz 2.81dbi



PACKING CRITERION

P/N: AG-041533-2214

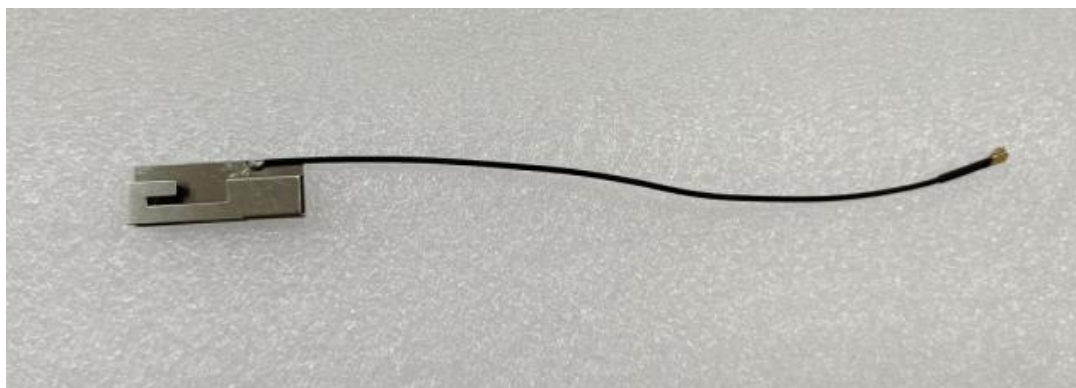
Spec.: 2.4 / 5.8G Internal antenna(shrapnel $30 \times 11 \times 5.2$)-Black line 1.13-terminal, see line length 135mm



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Packing requirement

7、Antenna photo



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