



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: 850292408

范例图号: Part Number: TX-DM450BD113B63M

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核准 Approval by	审核 Check by	撰写 Prepared by
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Project :Y202104090061

Date. 2024.04.12

REV: A3

Antenna SPEC

Customer name: 广东长虹Customer project: 长虹电视系Part Number: 850292408B&T P/N: AG-041533-2219Spec.: 2.4 / 5.8G Internal antenna(shrapnel 30 × 11 × 5.2)-Black
line 1.13-terminal, see line length 435mm

Sealed by corporation:

compilation	verify	approval
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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 / 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 μm)

Name		Project No.	Part No.
2.4 / 5.8G Internal antenna (shrapnel 30X11X5.2)-Black line 1.13-terminal, see line length 435mm		Y202104090061	AG-041533-2219

Weight	Quantity	Scale	Unit
		1:1	mm

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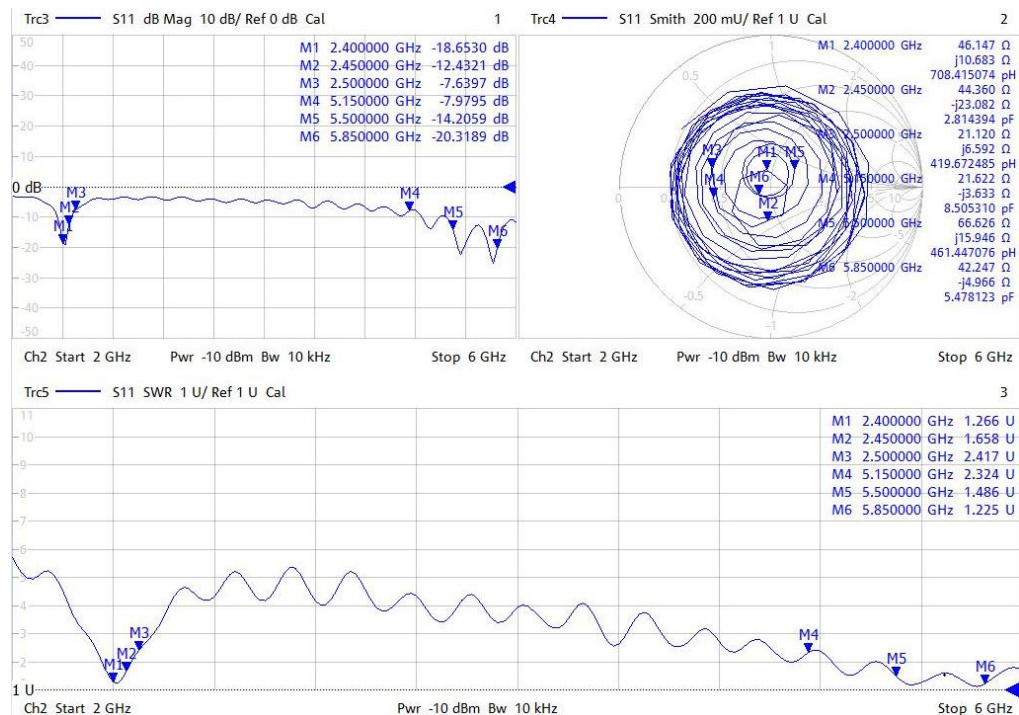
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co., . Ltd

4、Properties ¶meter

Electrical Parameter		
Freq Range		2400~2500MHz/5150-5850MHz
Characteristic Impedance		50 Ω
VSWR		sample of reference project
Max gain	2.4G	0.83dBi
	5.8G	2.23dBi
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 $435 \pm 5\text{mm}$ /Bus line length $450 \pm 5\text{mm}$
Maintain the force		$\geq 1\text{Kgf}$
Coaxial cable		Black1.13 double tin wire
Salt spray test		24H
Environment parameter		
Operating Temp		-30℃~65℃

5、Electrical test report (Single antenna)

S11 Parameter



➤ Standing wave ratio data-2.4G

Freq/MHz	2400MHz	2450MHz	2500MHz
VSWR	1.26	1.65	2.41

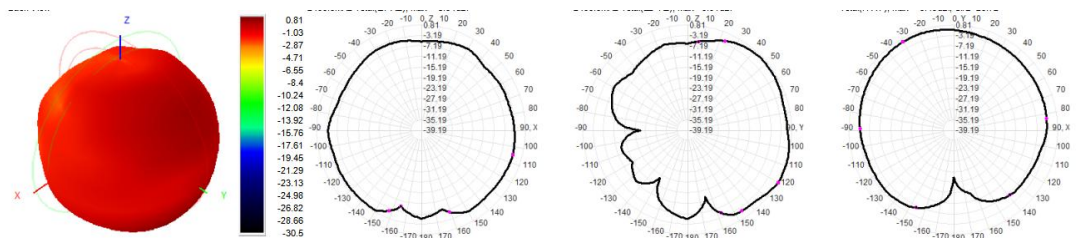
➤ Antenna darkroom test data-2.4G

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.68	0.81	42.84
2410.0	-3.56	0.83	44.07
2420.0	-3.61	0.71	43.58
2430.0	-3.71	0.54	42.54
2440.0	-3.94	0.28	40.36
2450.0	-4.15	0.01	38.49
2460.0	-4.37	-0.22	36.57
2470.0	-4.54	-0.46	35.12
2480.0	-4.69	-0.71	33.98
2490.0	-5.12	-1.13	30.77
2500.0	-5.30	-1.37	29.51

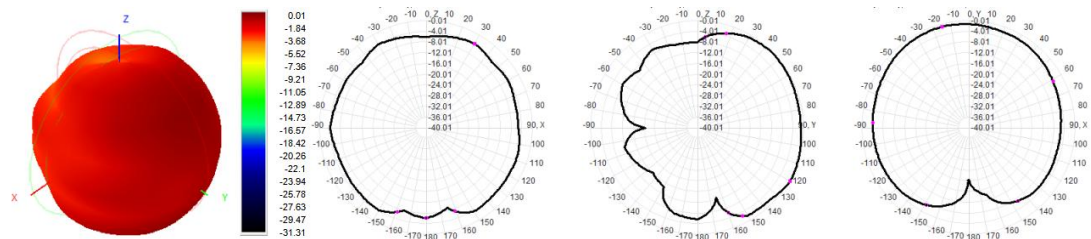
➤ direction map

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

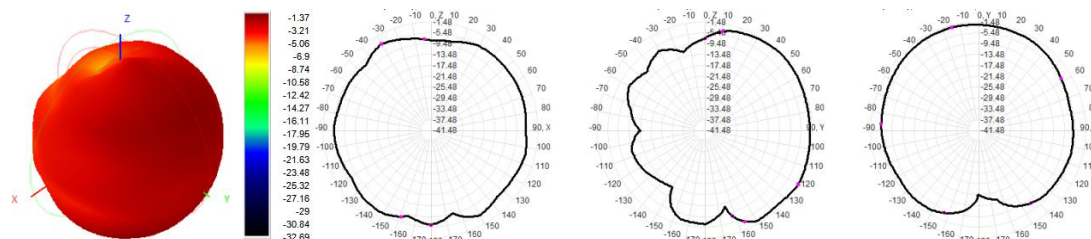
2400MHz



2450MHz



2500MHz



➤ Standing wave ratio data-5.8G

Freq/MHz	5150MHz	5550MHz	5850MHz
VSWR	2.32	1.48	1.22

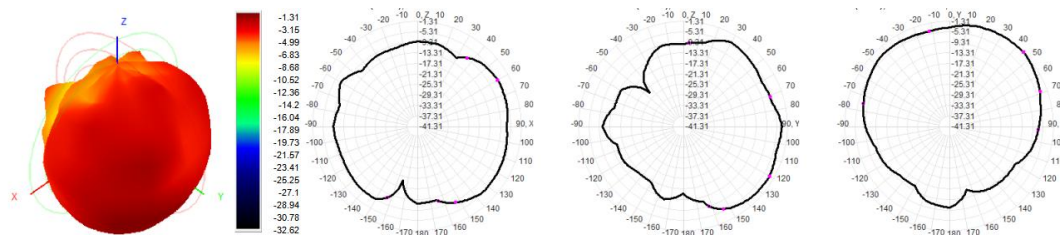
➤ Antenna darkroom test data-5.8G

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
5150.0	-7.19	-1.31	19.09
5250.0	-6.55	-0.93	22.15
5350.0	-5.66	-0.22	27.19
5450.0	-5.24	0.78	29.92
5550.0	-4.54	1.48	35.19
5650.0	-4.51	1.53	35.38
5750.0	-4.30	1.96	37.18
5850.0	-4.12	2.23	38.71

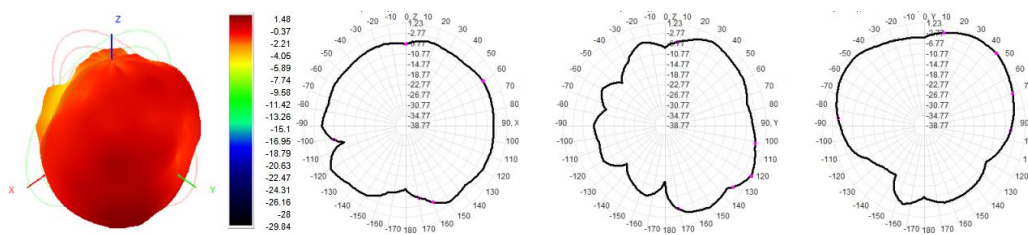
➤ direction map

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

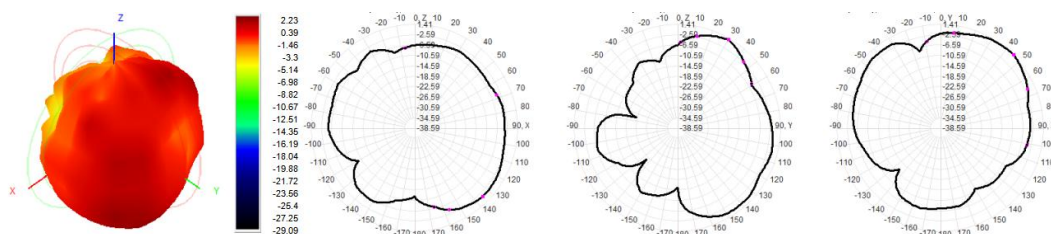
5150MHz



5550MHz



5850MHz



PACKING CRITERION

P/N: AG-041533-2219

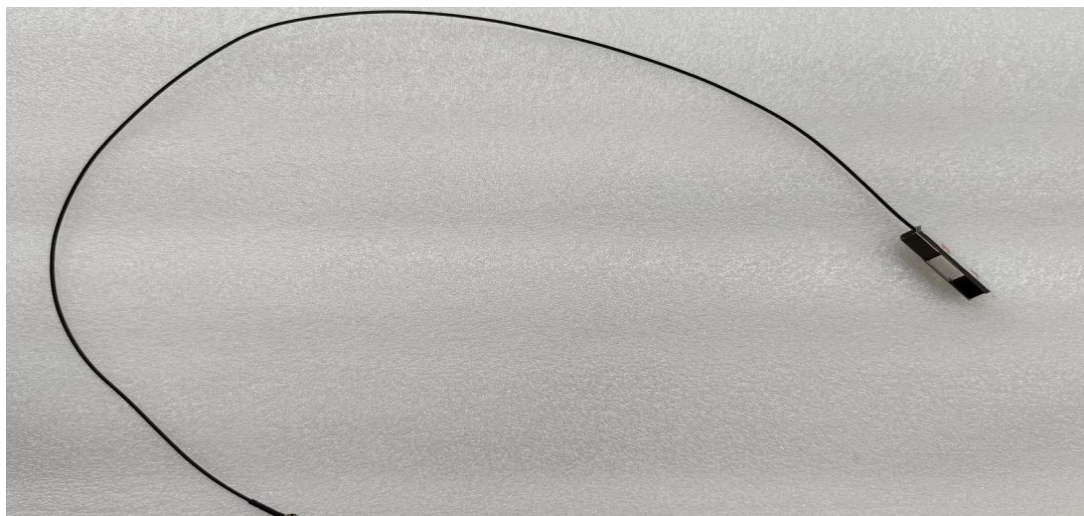
Spec.: 2.4 / 5.8G Internal antenna(shrapnel $30 \times 11 \times 5.2$)-Black line 1.13-terminal, see line length 435mm



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Packing requirement

7、Antenna photo



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