



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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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

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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 $\geq$ 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")

Weight	Quantity	Scale	Unit
		1 : 1	mm

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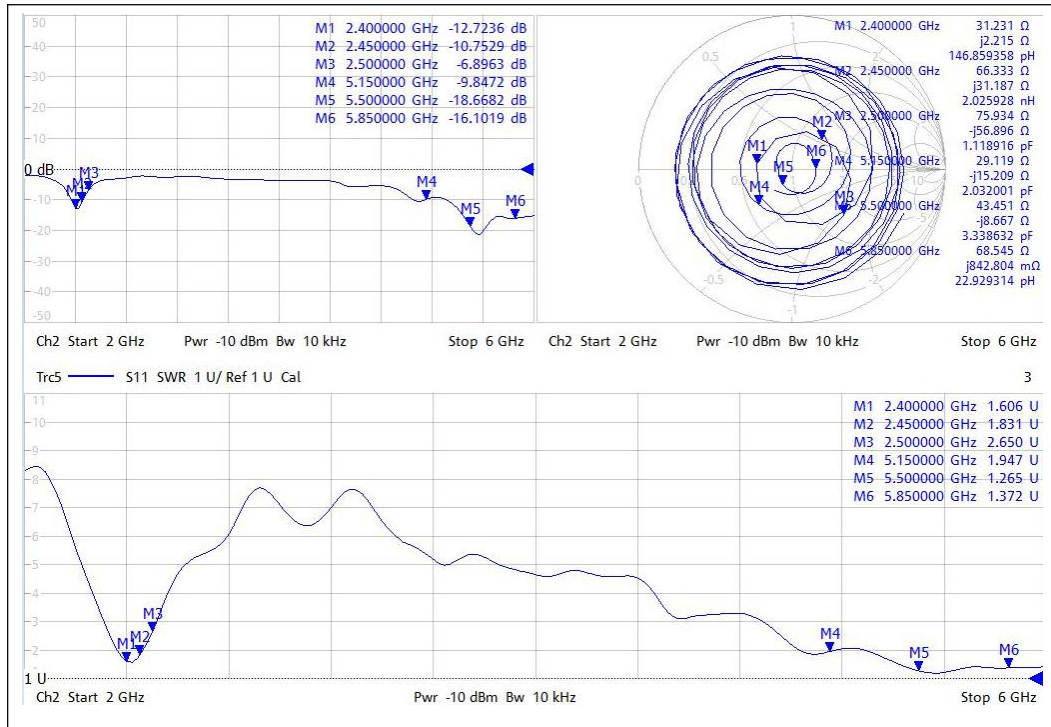
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4、Properties & parameter

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

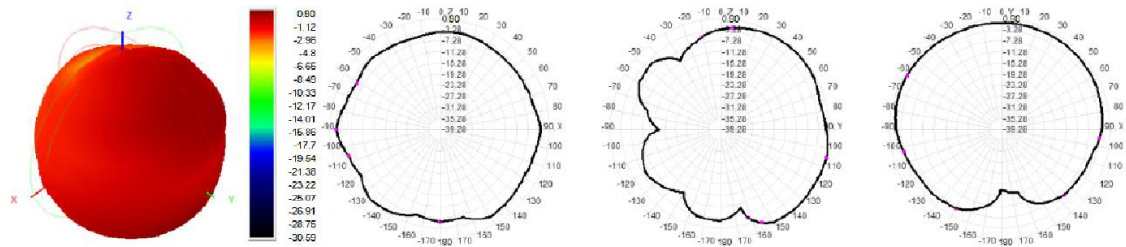
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.29	0.72	46.92
2410.0	-3.16	0.90	48.29
2420.0	-3.28	0.82	47.04
2430.0	-3.25	0.82	47.34
2440.0	-3.23	0.81	47.49
2450.0	-3.38	0.57	45.88
2460.0	-3.48	0.44	44.83
2470.0	-3.69	0.24	42.72
2480.0	-3.91	0.05	40.69
2490.0	-4.02	0.04	39.63
2500.0	-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 pattern2400Mhz

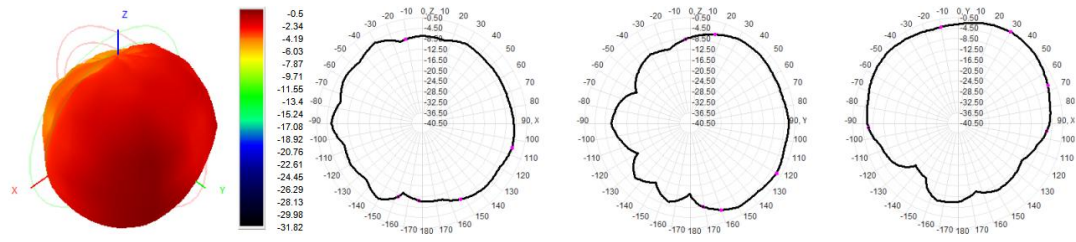
ANT-2.4G-1-2D-3D

2410MHz



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

5150MHz



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

