



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

发行日期 Issued Date: 2024.04.03

文件编号 Document NO.: _____

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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 $\geq 1\text{kgf}$).
- 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 I RFP terminal	Phosphor bronze (gold-plated)	gold-plated (thickness 10 μ)

Designer	Tanghailin	Name
Verify		2.4 / 5.86 Internal antenna (shrapnel 30X11X5.2)-Black line 1.13-terminal, see line length 225mm
Approval	Weight	Project No. Y202104090061
1 X	Quantity	Part No. AG-041533-2216
1~9.99	Scale	
10~19.99	Unit	
20~39.99	1:1	
40~	mm	

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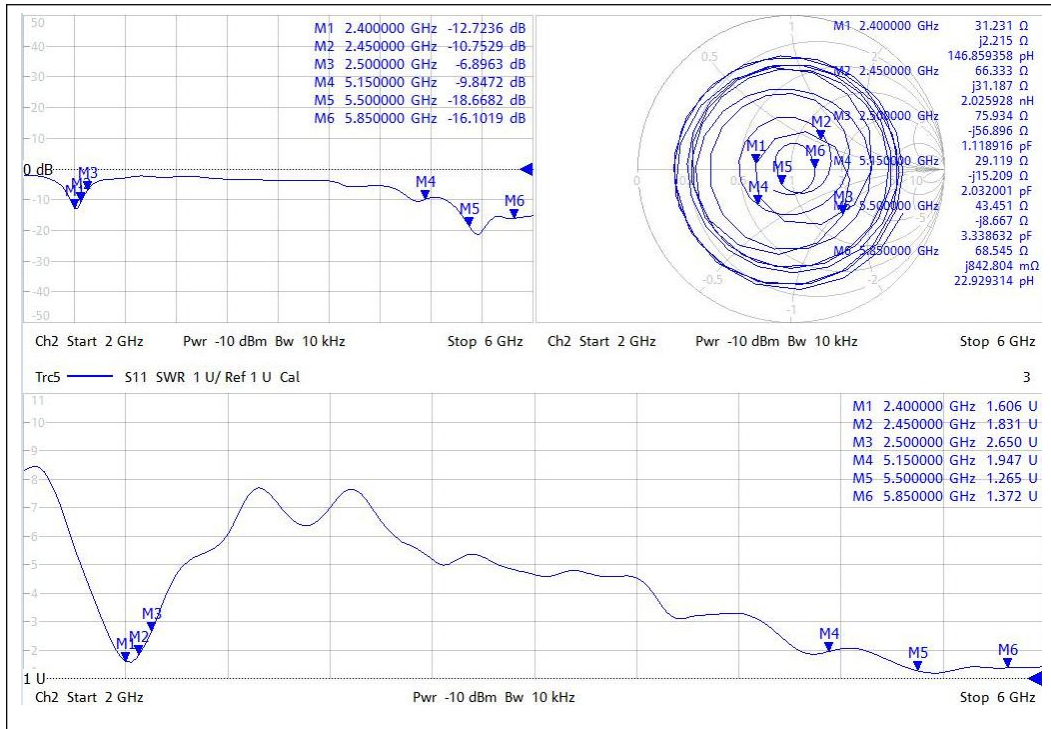
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4、Properties & parameter

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 ± 3mm/Bus line length 270 ± 3mm	
Maintain the force	≥ 1Kgf	
Coaxial cable	Black 1.13 double tin wire	
Salt spray test	24H	
Environment parameter		
Operating Temp	-30°C ~ 65°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

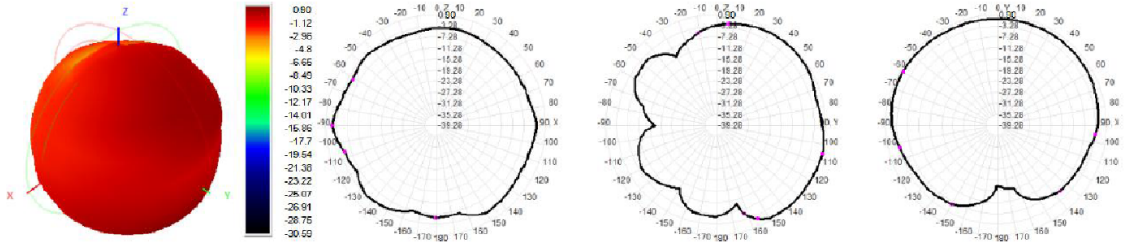
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.29	0.72	46.92
2410.0	-3.16	0.90	48.29
2420.0	-3.28	0.82	47.04
2430.0	-3.25	0.82	47.34
2440.0	-3.23	0.81	47.49
2450.0	-3.38	0.57	45.88
2460.0	-3.48	0.44	44.83
2470.0	-3.69	0.24	42.72
2480.0	-3.91	0.05	40.69
2490.0	-4.02	0.04	39.63
2500.0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

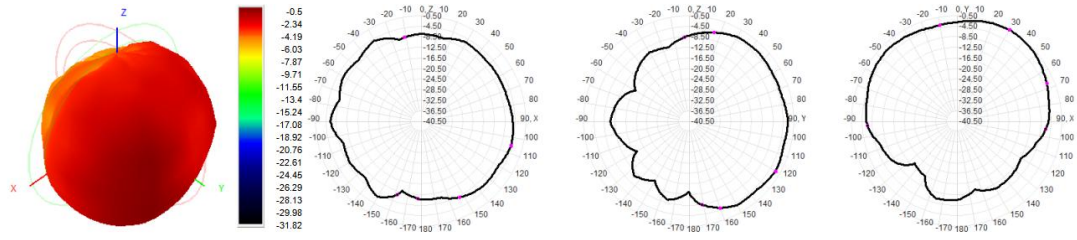
ANT-2.4G-1-2D-3D

2410MHz



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

5150MHz



PACKING CRITERION

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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Packing requirement

7、 Antenna photo

