



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-DM150B113B63M

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: 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

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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	Bubble tin /FRP/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	Project No.	Unit
2.4 / 5.86 Internal antenna(shrapnel 30X11X5.2)-Black Line 1.13-terminal, see line length 135mm	Y202104090061	mm
	Part No. AG-041533-2214	

Designer	Tanhailin	Weight	Quantity	Scale	Unit
Verify	Dengbin	± 0.05		1 : 1	mm
Approval		± 0.10			
1 > X		± 0.15			
10 ~ 19.99		± 0.20			
20 ~ 39.99		± 0.30			
40 ~					

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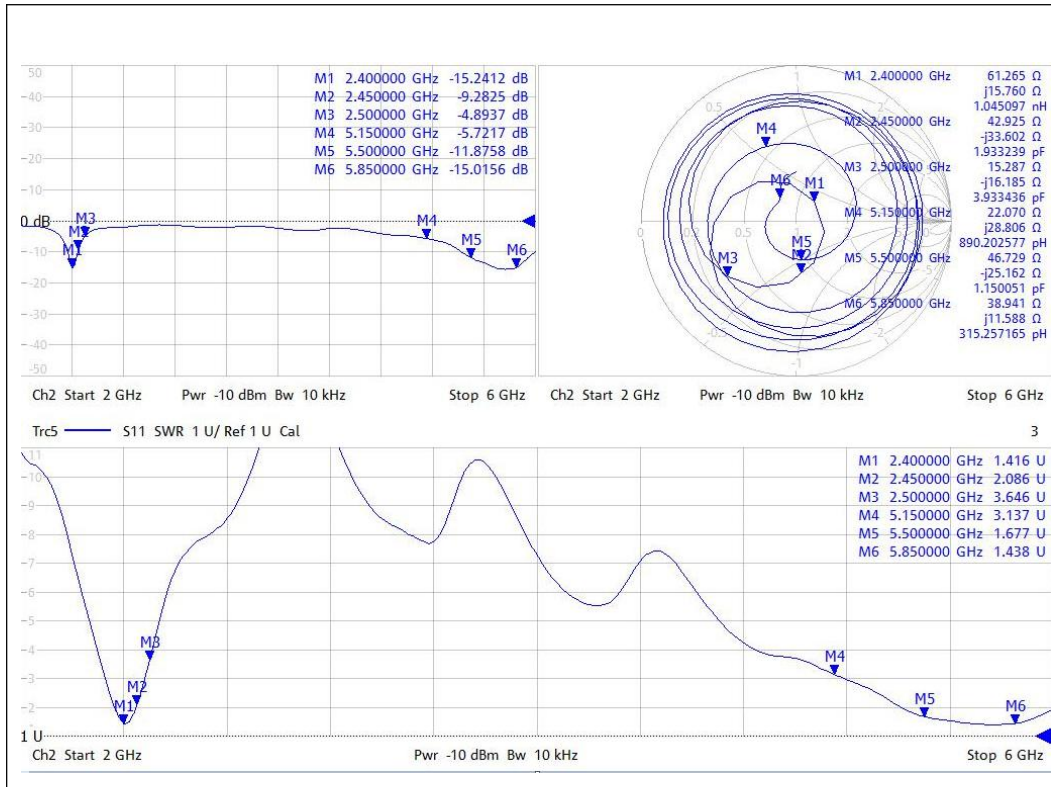
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co.,.Ltd

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±3mm/Bus line length150±3mm	
Maintain the force	≥1Kgf	
Coaxial cable	Black1.13 double tin wire	
Salt spray test	24H	
Environment parameter		
Operating Temp	-30℃~65℃	

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

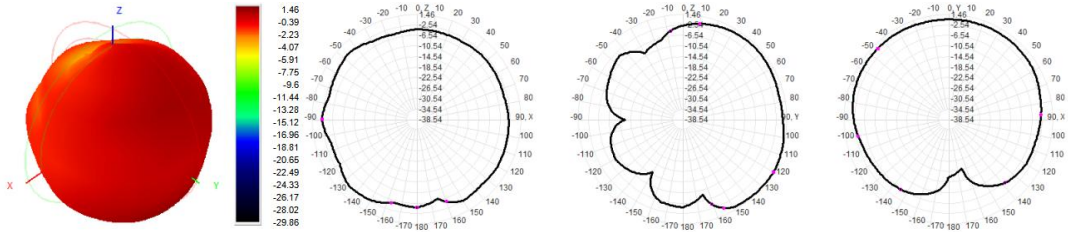
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-2.74	1.46	53.19
2410.0	-2.72	1.26	53.49
2420.0	-2.73	1.09	53.32
2430.0	-2.82	0.87	52.19
2440.0	-3.04	0.65	49.67
2450.0	-3.20	0.44	47.83
2460.0	-3.46	0.16	45.11
2470.0	-3.69	-0.05	42.80
2480.0	-3.91	-0.25	40.63
2490.0	-4.24	-0.56	37.64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

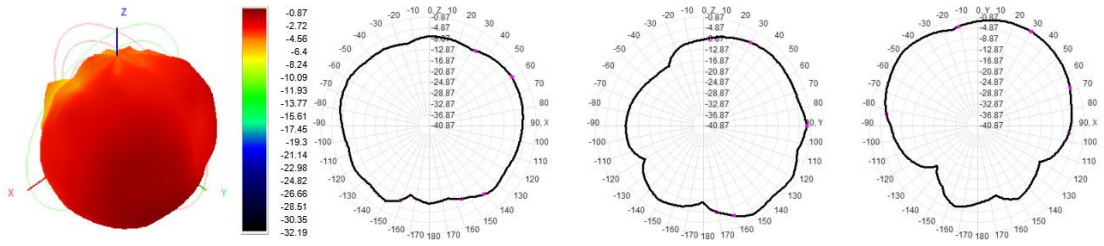
ANT-2.4G-1-2D-3D

2400MHz



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

5150MHz



PACKING CRITERION

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



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Packing requirement

7、 Antenna photo

