



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: 850292407

范例图号: Part Number: TX DM400BD113B63M

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: 850292407

B&T P/N: AG-041533-2218

Spec.: 2.4 / 5.8G Internal antenna(shrapnel 30 × 11 × 5.2)-Black
line 1.13-terminal, see line length 385mm

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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 $\geq 1\text{Kg}$).

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 RP terminal	Phosphor bronze (gold-plated)	gold-plated (thickness 10")

Name	Project No.	Part No.
2.4 / 5.86 Internal antenna (shrapnel 30×11×5.2)-Black line 1.13-terminal, see line length 385mm	Y202104090061	AG-041533-2218

Weight	Quantity	Scale	Unit
	1	1	mm

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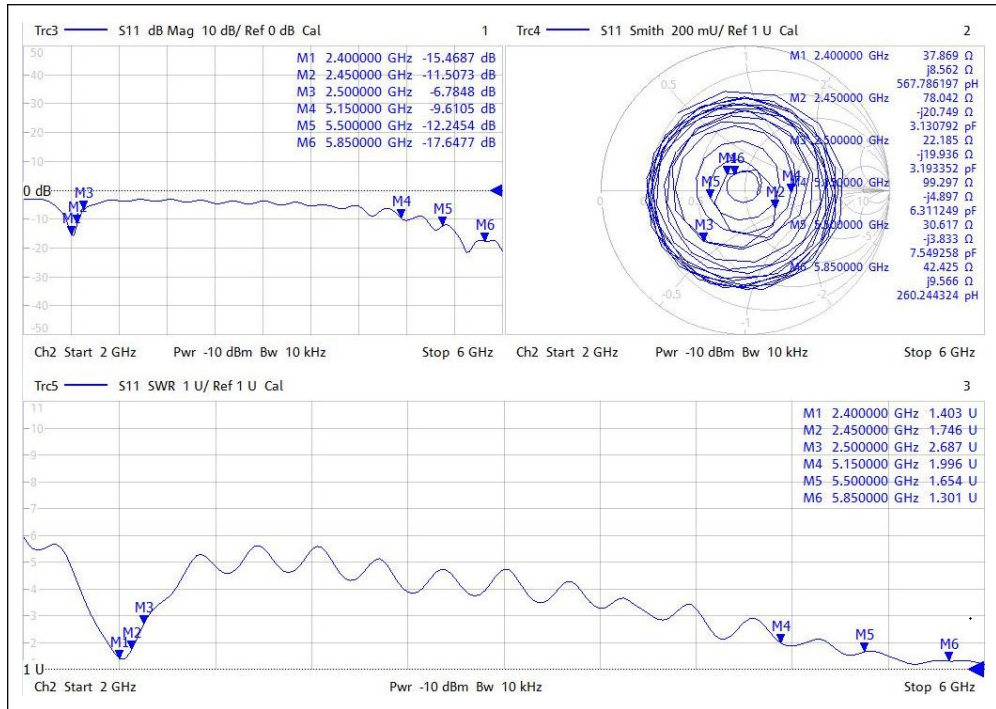
ZHONGSHAN B&T TECHNOLOGY HOLDINGS Co., Ltd

4、Properties &parameter

Electrical Parameter		
Freq Range		2400~2500MHz/5150-5850MHz
Characteristic Impedance		50 Ω
VSWR		sample of reference project
Max gain	2.4G	1.04dBi
	5.8G	2.21dBi
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 $385 \pm 3\text{mm}$ /Bus line length $400 \pm 3\text{mm}$
Maintain the force		$\geq 1\text{Kgf}$
Coaxial cable		Black1.13 double tin wire
Salt spray test		24H
Environment parameter		
Operating Temp		$-30^{\circ}\text{C} \sim 65^{\circ}\text{C}$

5、Electrical test report

S11 Parameter



Electrical Performance Test Parameter Table

Freq/MHz	2400MHz	2450MHz	2500MHz	5150MHz	5550MHz	5850MHz
VSWR	1.40	1.74	2.68	1.99	1.65	1.30

Efficiency & Gain

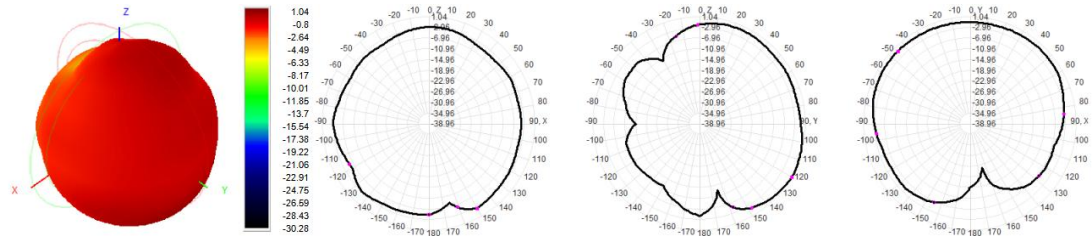
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.54	1.04	44.21
2410.0	-3.50	0.92	44.63
2420.0	-3.59	0.68	43.74
2430.0	-3.65	0.49	43.11
2440.0	-3.77	0.35	41.96
2450.0	-3.93	0.20	40.42
2460.0	-4.19	-0.02	38.15
2470.0	-4.46	-0.23	35.79
2480.0	-4.68	-0.42	34.01
2490.0	-4.93	-0.62	32.11
2500.0	-5.22	-0.82	30.07

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
5150.0	-7.06	-1.41	19.67
5250.0	-6.63	-1.51	21.73
5350.0	-6.25	-0.51	23.70
5450.0	-5.15	0.86	30.52
5550.0	-4.89	1.06	32.45
5650.0	-4.30	1.31	37.12
5750.0	-4.08	1.77	39.06
5850.0	-4.03	2.21	39.53

Radiation pattern

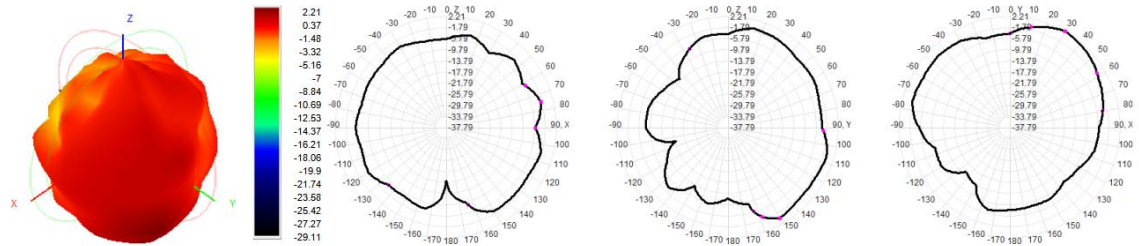
ANT-2.4G-1-2D-3D

2400MHz



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

5850MHz



PACKING CRITERION

P/N: AG-041533-2218

Spec.: 2.4 / 5.8G Internal antenna(shrapnel $30 \times 11 \times 5.2$)-Black line 1.13-terminal, see line length 385mm



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Packing requirement

7、Antenna photo

