



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

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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

Sealed by corporation:

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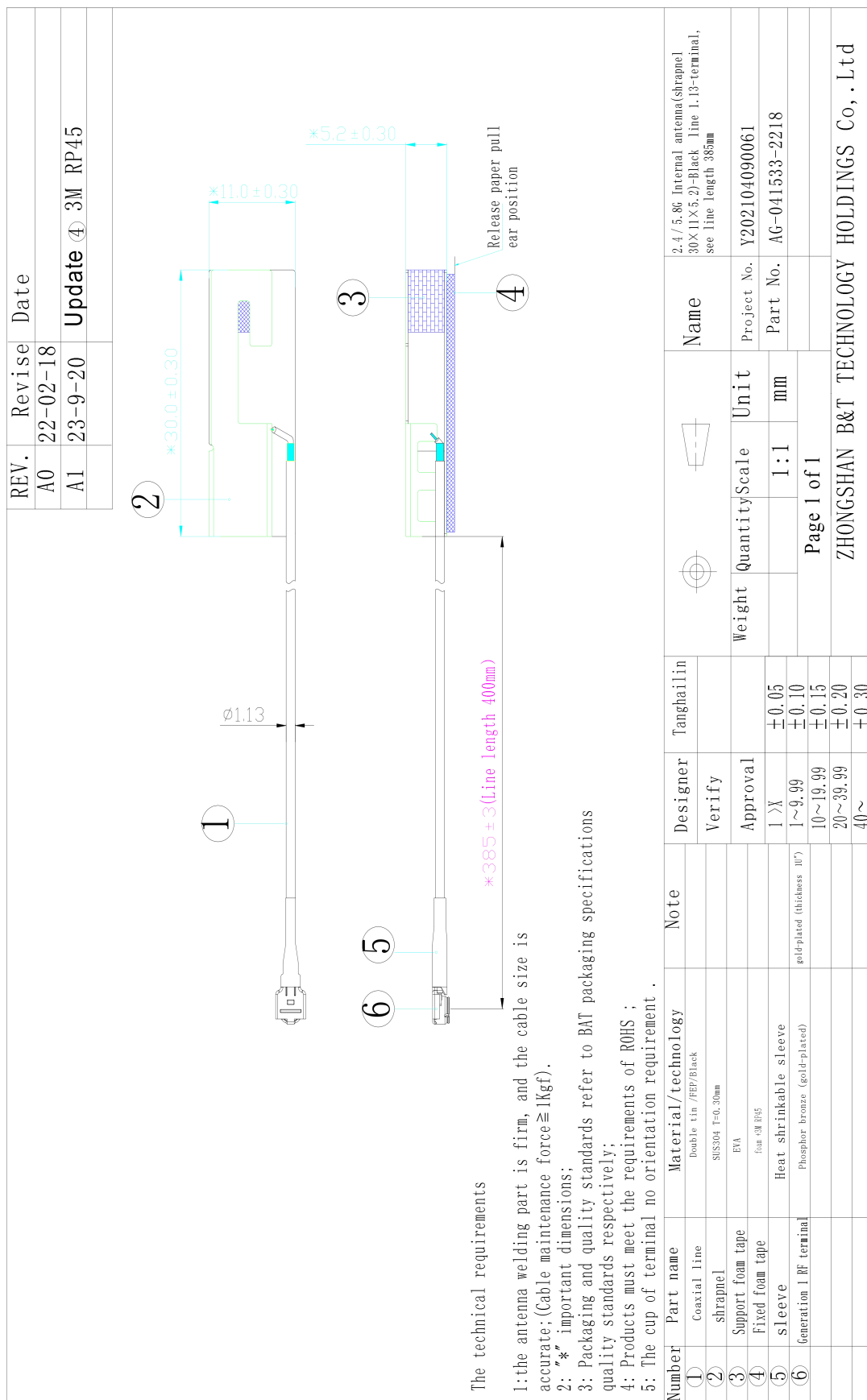
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3、Product drawing

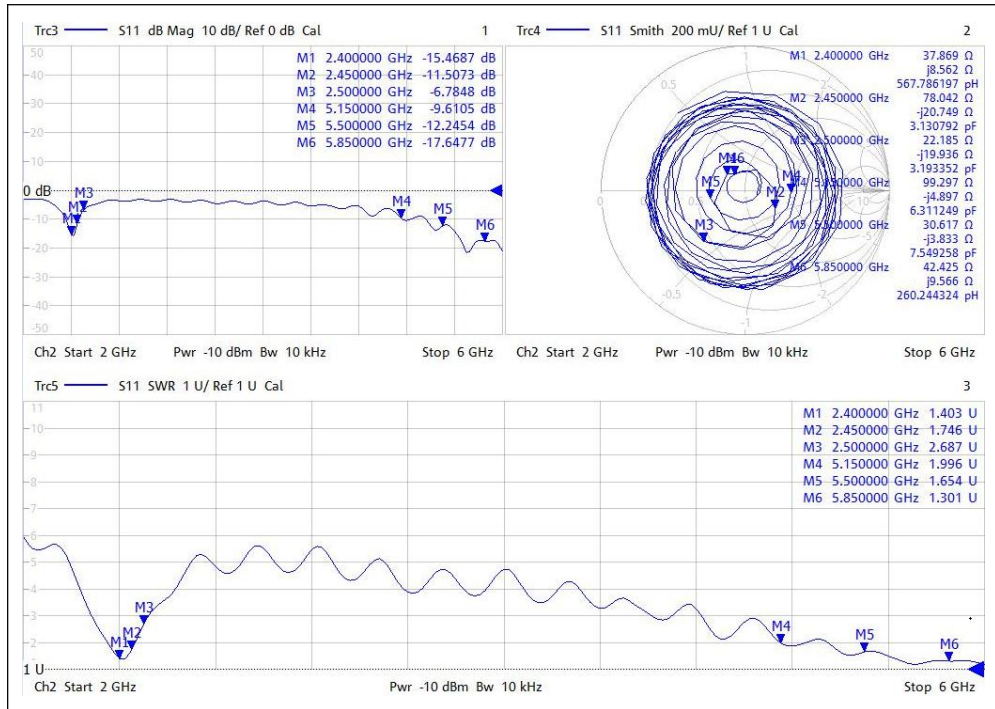


4、Properties & parameter

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		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	1.40	1.74	2.68	1.99	1.65	1.30

Efficiency & Gain

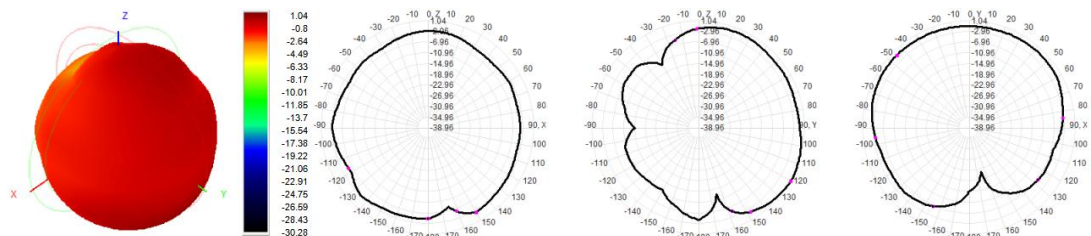
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.54	1.04	44.21
2410.0	-3.50	0.92	44.63
2420.0	-3.59	0.68	43.74
2430.0	-3.65	0.49	43.11
2440.0	-3.77	0.35	41.96
2450.0	-3.93	0.20	40.42
2460.0	-4.19	-0.02	38.15
2470.0	-4.46	-0.23	35.79
2480.0	-4.68	-0.42	34.01
2490.0	-4.93	-0.62	32.11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

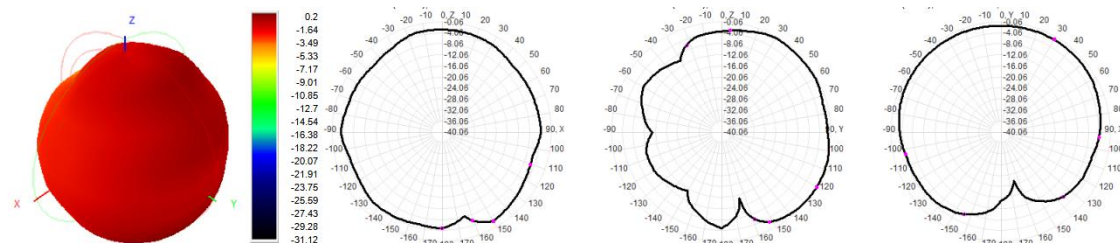
Radiation pattern

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

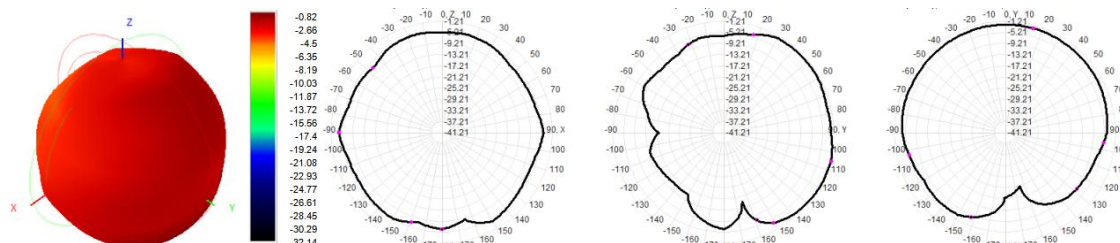
2400MHz



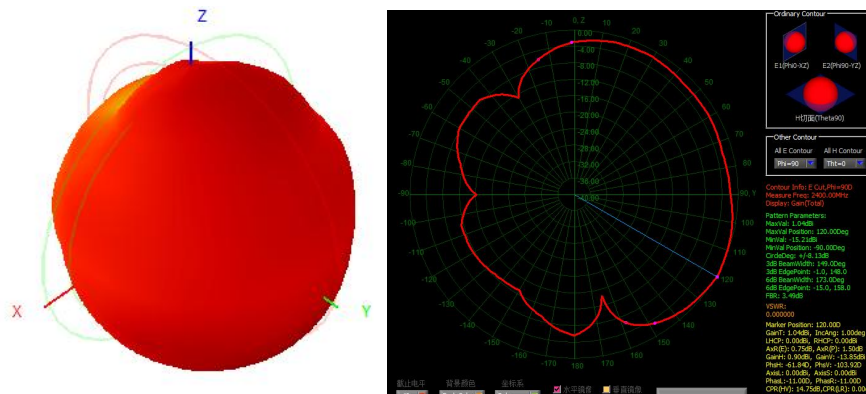
2450MHz



2500MHz

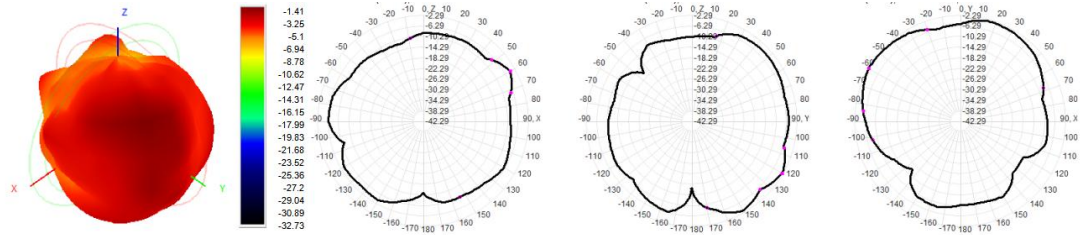


2400-2500MHz Max gain 2400MHz 1.04dbi

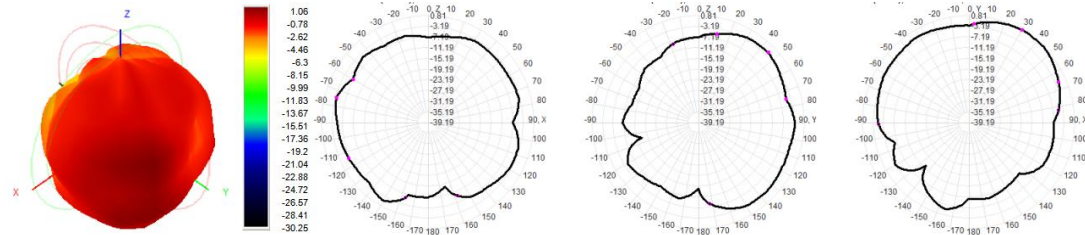


ANT-5.8G-1-2D-3D

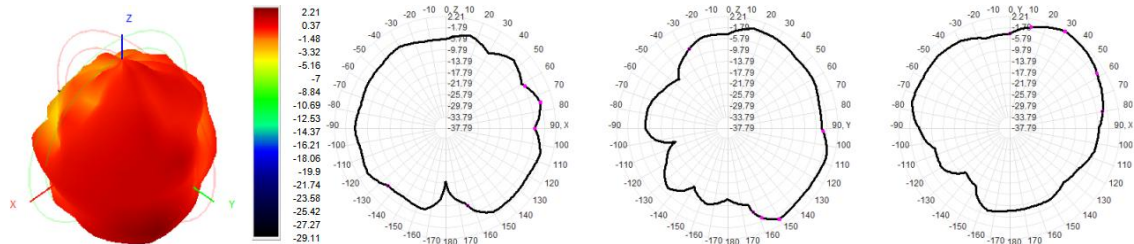
5150MHz



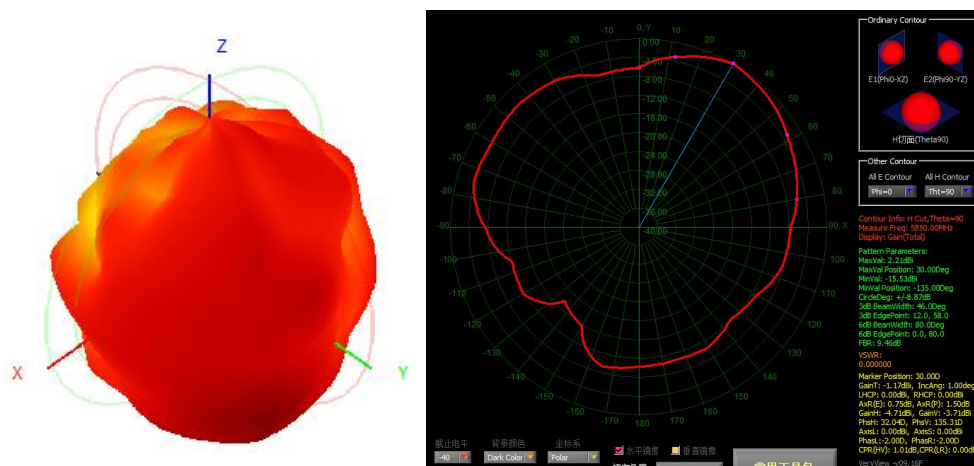
5550MHz



5850MHz



5150-5850MHz Max gain 5850MHz 2.21dbi



PACKING CRITERION

P/N: AG-041533-2218

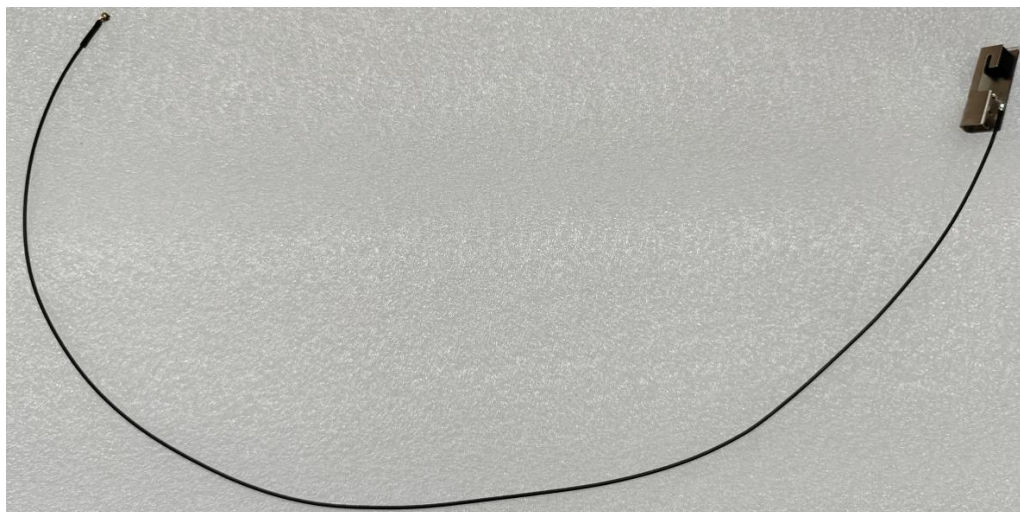
Spec.: 2.4 / 5.8G Internal antenna(shrapnel $30 \times 11 \times 5.2$)-Black line 1.13-terminal, see line length 385mm



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Packing requirement

7、Antenna photo



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