



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

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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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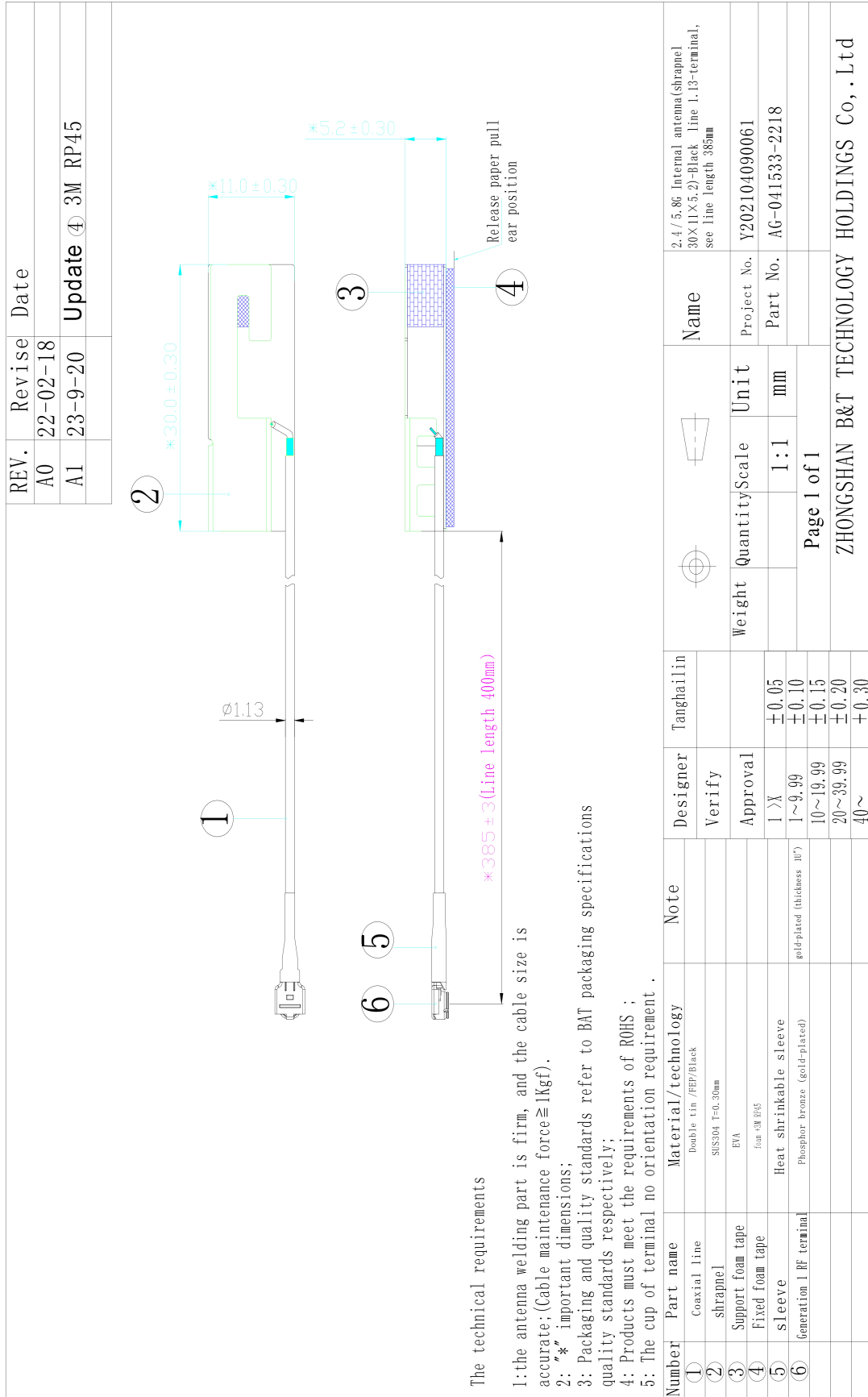
Document making / revising / abolishing resume

Edition	Date	Formulate/Revised content	Formulate	approval
A0	2021.04.12	First formulation	Huangfeihui	Tanghai lin/Yilinyu
A0-0630	2021.06.30	Update test report	Huangfeihui	Tanghai lin/Yilinyu
A0-0708	2021.07.08	Update performance parameters	Huangfeihui	Tanghai lin/Yilinyu
A0-0803	2021.08.03	Update the terminal model description in the performance parameters	Huangfeihui	Tanghai lin/Yilinyu
A0-1104	2021.11.04	Update process specification	Huangfeihui	Tan hai
A0-0221	2022.02.21	Update the process description and packing method	Huangfeihui	Tan hai
A1	2022.06.29	Update desiccant description and dosage	Huangfeihui	Liulihua/Li hui
A2	2023.09.20	Update fixed foam tape	Huangfeihui	Liulihua/Li hui
A3	2024.04.03	Update test report (For customer authentication)	Huangfeihui	Liulihua/Li hui

Contents

1、 Cover	1
2、 Index of specification	3
3、 Product drawing	4
4、 Electrical Parameter	5
5、 Electrical test report	6-8
6、 Packing Specification	9
7、 Antenna photo	10

3、Product drawing

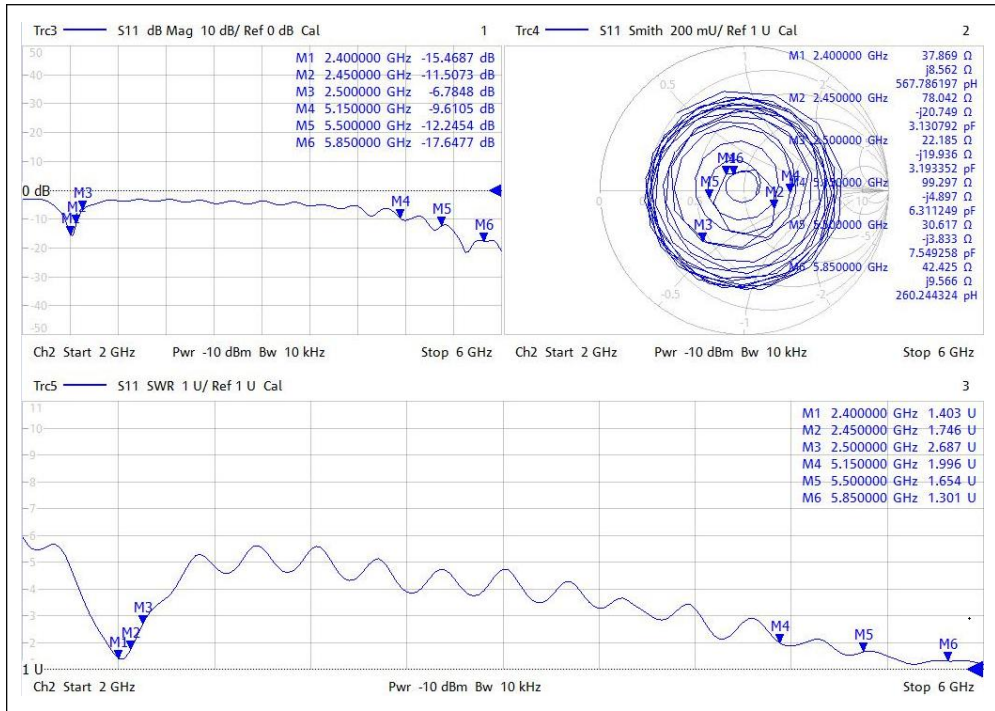


4、Properties & parameter

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 ± 3mm/Bus line length 400 ± 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	1.40	1.74	2.68	1.99	1.65	1.30

Efficiency & Gain

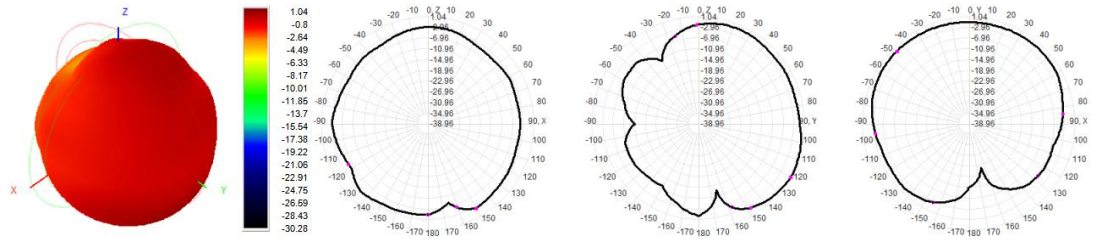
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.54	1.04	44.21
2410.0	-3.50	0.92	44.63
2420.0	-3.59	0.68	43.74
2430.0	-3.65	0.49	43.11
2440.0	-3.77	0.35	41.96
2450.0	-3.93	0.20	40.42
2460.0	-4.19	-0.02	38.15
2470.0	-4.46	-0.23	35.79
2480.0	-4.68	-0.42	34.01
2490.0	-4.93	-0.62	32.11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

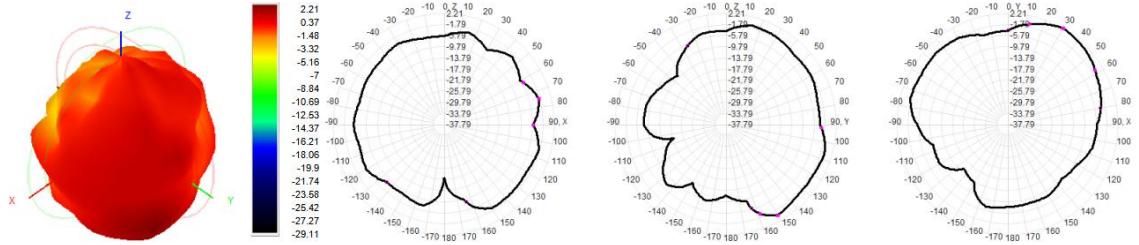
ANT-2.4G-1-2D-3D

2400MHz



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

5850MHz



PACKING CRITERION

P/N: AG-041533-2218

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



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Packing requirement

7、 Antenna photo

