



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: 850323706

范例图号: Part Number: TX-DM100BD113B63M

发行日期 Issued Date: 2024.04.03

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Contact person for sales: Longmingguo	MB:18576042661	E.mail: longmg@tech-now.com
Contact person for technical: Liulihua	MB:13590104459	E.mail: liulh@tech-now
Contact person for Quality: zenglong	MB:18188400229	E.mail: zenglk@tech-now.com

Project :Y202110210330

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REV: A3

# Antenna SPEC

Customer name: 广东长虹

Customer project: TX-DM100BD113Y63M

Part Number: 850323706

B&T P/N: 74300001

Spec.: Internal antenna-2.4 / 5G-Black line 1.13-first generation  
terminal-see line length 85mm-shrapnel 30×11×5.2mm

## Contact information of B&T:

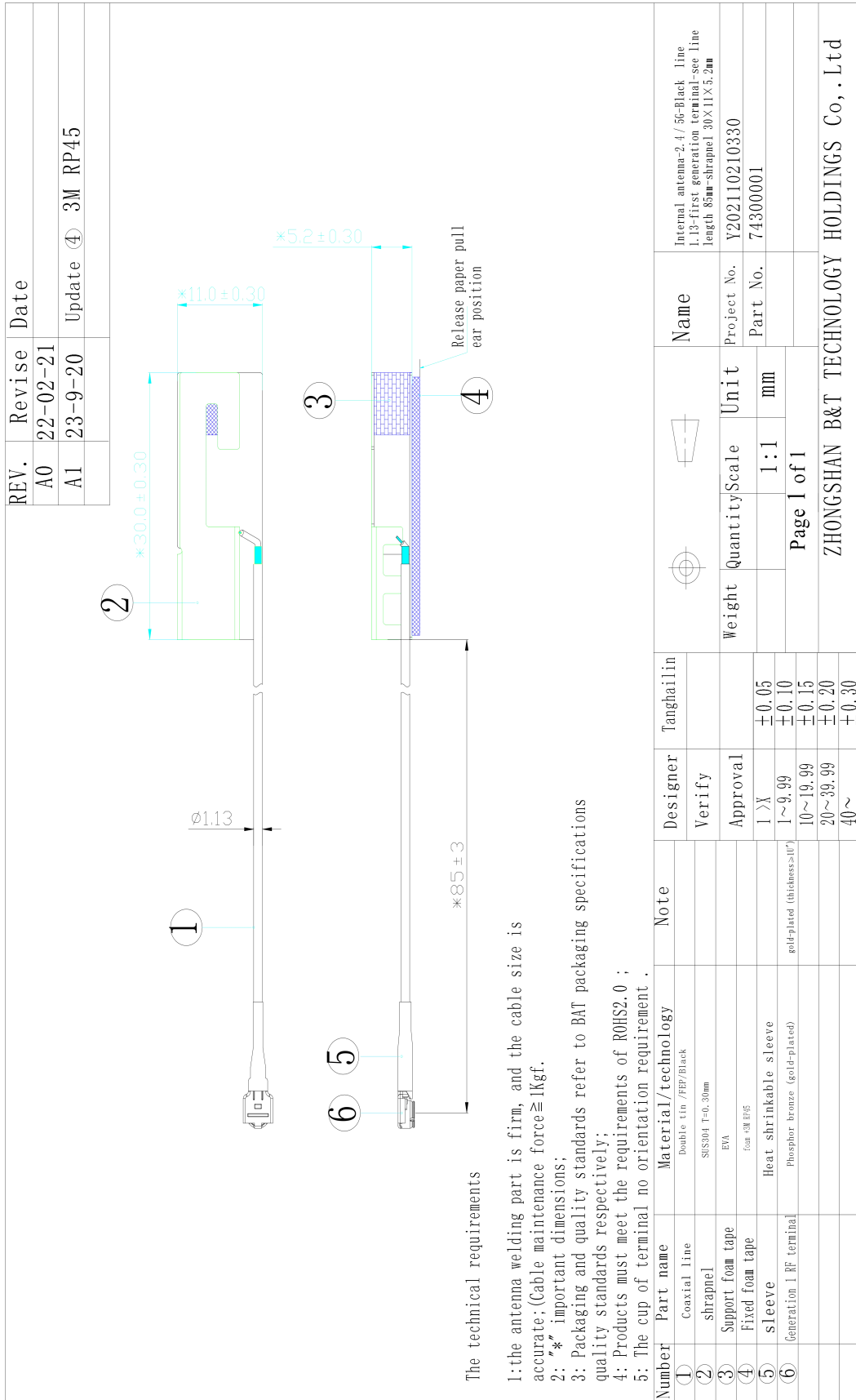
Contact person for sales: Longmingguo	MB:18576042661	E-mail: longmg@tech-now.com
Contact person for technical: Tanhai	MB:18665924001	E-mail: tanh@tech-now.com
Contact person for Quality: Yuanjinjun	MB:18998784314	E-mail: yuanjj@tech-now.com



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### 3、Product drawing

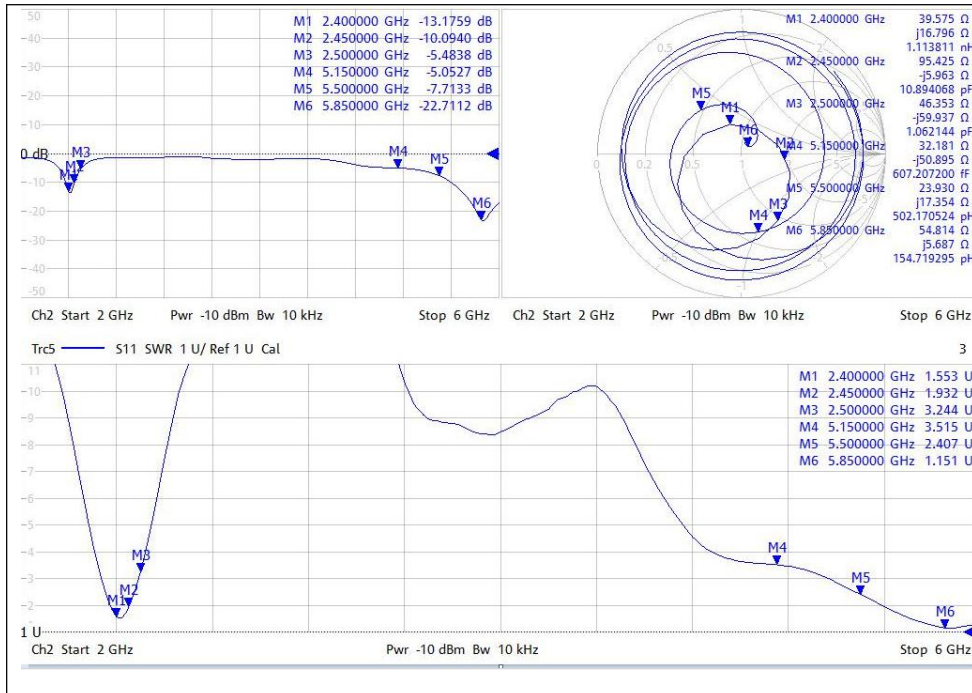


#### 4、Properties & parameter

Electrical Parameter		
Freq Range	2400~2500MHz/5150-5850MHz	
Characteristic Impedance	50 Ω	
VSWR	sample of reference project	
Max gain	2.4G	1.89dBi
	5G	3.58dBi
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 $85 \pm 3\text{mm}$	
Maintain the force	$\geq 1\text{KG}$	
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	1.55	1.93	3.24	3.51	2.40	1.15

### Efficiency and Gain

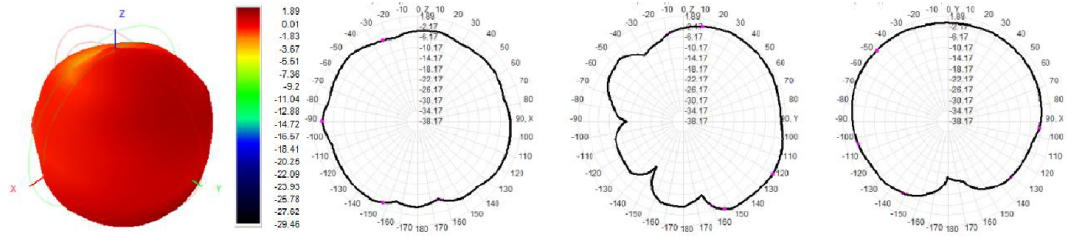
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-2.57	1.85	55.39
2410.0	-2.47	1.89	56.61
2420.0	-2.52	1.73	55.95
2430.0	-2.57	1.67	55.29
2440.0	-2.65	1.56	54.35
2450.0	-2.78	1.42	52.76
2460.0	-2.96	1.19	50.54
2470.0	-3.22	0.86	47.68
2480.0	-3.45	0.65	45.15
2490.0	-3.53	0.56	44.32
2500.0	-3.93	0.12	40.48

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
5150.0	-5.47	0.15	28.37
5250.0	-4.85	1.19	32.74
5350.0	-4.47	1.46	35.72
5450.0	-4.25	1.85	37.62
5550.0	-3.59	1.98	43.73
5650.0	-3.10	3.14	48.94
5750.0	-2.94	2.44	50.76
5850.0	-2.47	3.58	56.63

# Radiation pattern

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

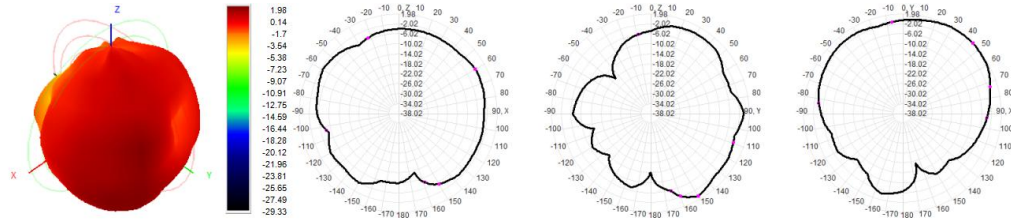
2410MHz





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

5550MHz



## PACKING CRITERION

P/N: 74300001

Spec. : Internal antenna-2.4 / 5G-Black line 1.13-first generation terminal-see line length  
85mm-shrapnel 30×11×5.2mm



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料20220629.doc

Packing requirement

7、 Antenna photo

