

# 惠州市东智电子有限公司

## HUEIZHOU DONZHI ELECTRONICS CO.,LTD

# **Sample Confirmation**

### Letter

### FOR APPROVAL

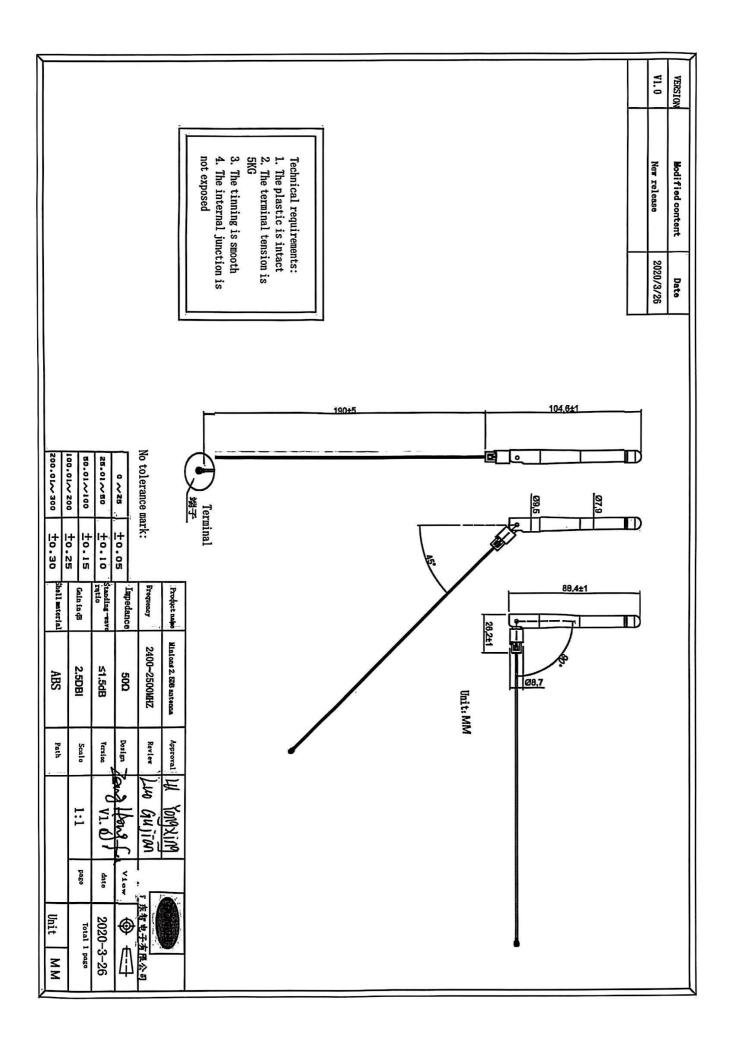
	Customer	Tianjian El	<u>ectronics</u>				
	Part NO.	SP	00024				
	Part Name Two-ring 2DB antenna						
	Part Models 2.4G-2DB-210MM						
•		Manufacturer confirmation column€					
	Confirmation	Design & Preparing	Review <-	Approval <sup>c</sup>	, <del>(</del>		
	stampぐ						
		Zeng Hong fa	Luo Gujian	LL Yongxing	÷		
	4						
	Customer confirmation column←1						
	Confirmation	Testing <sup>(2)</sup>	Review←	Approval←	4		
	stamp↩						
		Lu Shi kun	Thou ayan	Chen Ningaiu	۴		

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### WiFi antenna passive test data

Freqency(MHz)	Efficiency(%)
2400	77.94
2410	80.23
2420	81.42
2430	80.35
2440	79.22
2450	78.16
2460	76.75
2470	74.75
2480	74.06
2490	74.06
2500	74.37

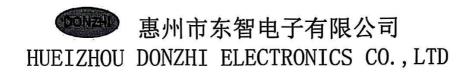
Freq(MHz)	Max(dB)
2400	1
2410	1.28
2420	1.23
2430	0.92
2440	0.62
2450	0.59
2460	0.43
2470	-0.02
2480	0.09
2490	-0.05
2500	0.02

#### Efficiency

Freqency(MHz)	Gain(dBi)	Efficiency(dE	Efficiency(%)
2400	2.19	-1.08	77.94
2410	2.63	-0.96	80.23
2420	2.49	-0.89	81.42
2430	2.58	÷0:95	80:35
2440	2.45	-1.01	79.22
2450	2.22	-1:07	78.16
2460	2.23	-1,15	76.75
2470	1:94	-1.26	74.75
2480	1,92	-1.3	74.06
2490	1.8		74.06
2500	1.85	-1.29	74.37

#### Gain in dB

Phi(°)	Freq(MHz)	Max(dB)	Theta(°)	Freq(MHz)	MaxMin(dB)
Ō	2400	1.64	90	2400	2.01
0	2410	1.93	90	2410	2.03
Ö	2420	1.84	90	2420	1,97
0	2430	1.7	90	2430	2.23
Ò	2440	1.59	90	2440	2.27
Ò	2450	1.54	90	2450	2.41
Q.	2460	1.25	90	2460	2,49
0	2470	0.87	90	2470	
0	2480	0.69	90	2480	2,13
0	2490	0.52	90	2490	2.19
0	2500	0.44	90	2500	2.18



#### 1: Product parameters

Product name:

### 2. 4G Minion antenna

	Mechanical perform	mance indicators	
Size:	104*9. 5mm	Wire length:	210mm
	1. ABS 2. Copper tube	Color:	White
Material:	3. IPEX first generation terminal	Operating temperature	−20℃±85℃

Electrical performance indicators				
Frequency range:	2400~2500MHZ	Polarization mode:	Vertical	
Impedance:	50 Ω	Radiation direction:	Omnidirectional	
Standing wave ratio:	≤1.5	Operating voltage:	5V	
Gain in dB:	2. 63 DBI	Bandwidth:	100MHZ	

### 2:Product pictures

