



惠州市东智电子有限公司

HUEIZHOU DONZHI ELECTRONICS CO.,LTD

Sample Confirmation

Letter

FOR APPROVAL

Customer Tianjian Electronics

Part NO. SP00024

Part Name Two-ring 2DB antenna

Part Models 2.4G-2DB-210MM

Manufacturer confirmation column			
Confirmation stamp	Design & Preparing	Review	Approval
	Zeng Hong fa	Luo Gujian	Lu Yongxing

Customer confirmation column			
Confirmation stamp	Testing	Review	Approval
	Xu Shi kun	Zhou auan	Chen mingliu

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WiFi antenna passive test data

Frequency(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

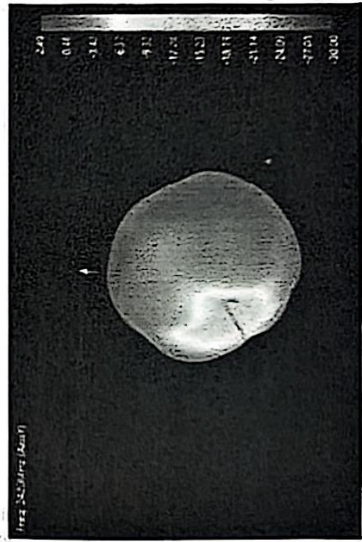
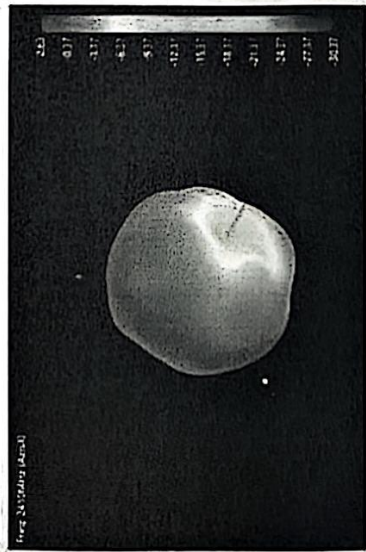
Efficiency

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	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	-1.3	74.06
2500	1.85	-1.29	74.37

Gain in dB

Phi(°)	Freq(MHz)	Max(dB)	Theta(°)	Freq(MHz)	MaxMin(dB)
0	2400	1.64	90	2400	2.01
0	2410	1.93	90	2410	2.03
0	2420	1.84	90	2420	1.97
0	2430	1.7	90	2430	2.23
0	2440	1.59	90	2440	2.27
0	2450	1.54	90	2450	2.41
0	2460	1.25	90	2460	2.49
0	2470	0.87	90	2470	2.08
0	2480	0.69	90	2480	2.13
0	2490	0.52	90	2490	2.19
0	2500	0.44	90	2500	2.18

3D drawing



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1: Product parameters

Product name: 2. 4G Minion antenna

Mechanical performance indicators			
Size:	104*9.5mm	Wire length:	210mm
Material:	1. ABS 2. Copper tube 3. IPEX first generation terminal	Color:	White
		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

