

Specification for Approval

Customer Name : Lockin Technology (Beijing) Co., Ltd.
LOCKIN (U.S.) INC.

Part Name : Built-in antenna -2.4G- shrapnel--L15.2 × W8.5 ×
H9.9 × T0.3mm

Customer PN : 0184000103

Vendor PN : 79220041

Antenna type : shell fragment

Vendor confirmation					
department	compilation	verify	approval		
autograph	Qiucuiqing	LvJie	Liulihua		
date	2024.06.06	2024.06.06	2024.06.06		
Customer confirmation					
department					
autograph					
date					

Name of contractor: Sichuan B&T Technology Co., Ltd.

address: Room No. 2 and 3, 5F, Building 8, No. 218, Wenwu Middle Road,
Tangxun Street, Economic Development Zone, Mianyang City, Sichuan
Province

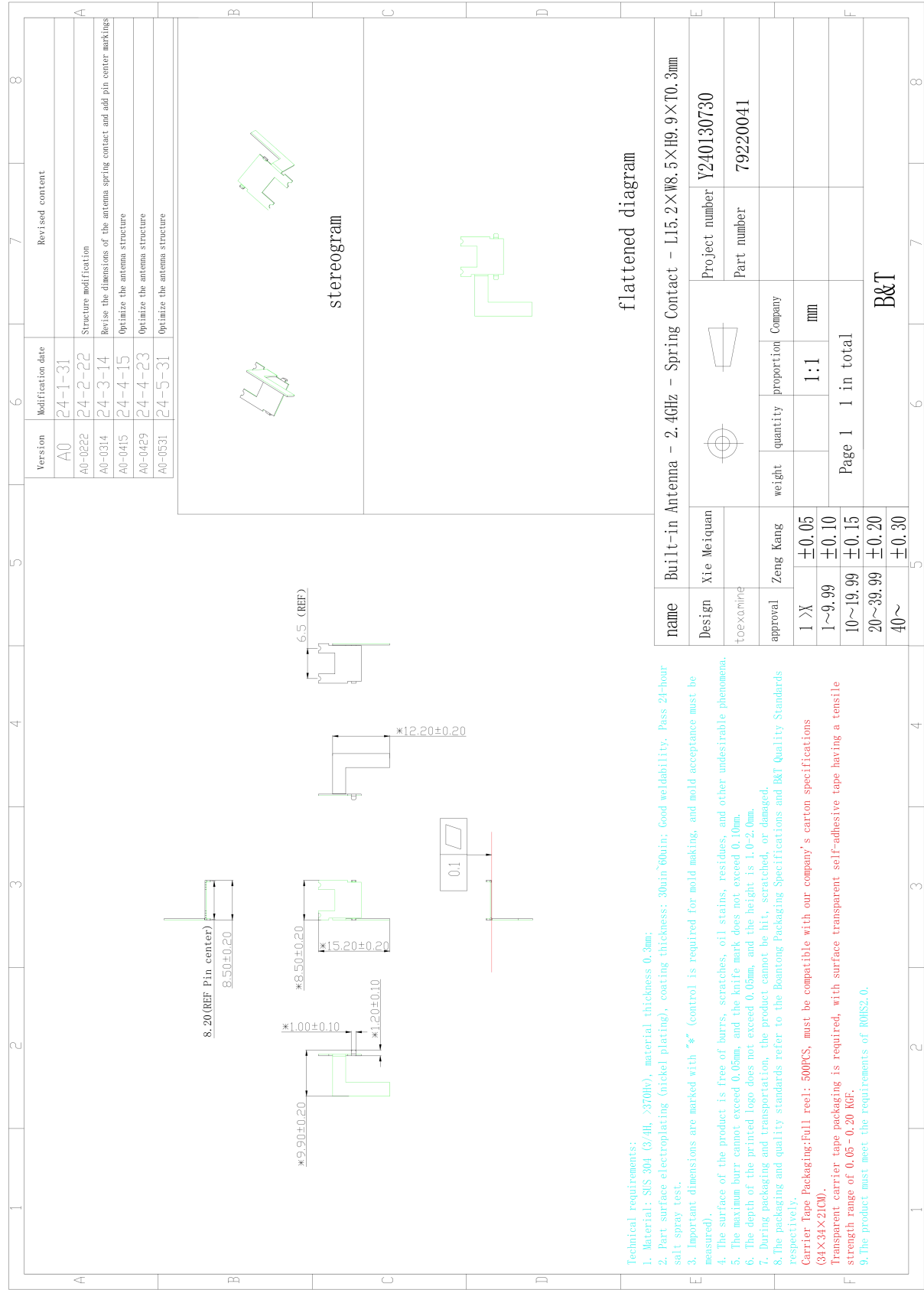
Contents

- 一、 Revision History
- 二、 2D Drawings
- 三、 Electrical performance test report

revision History

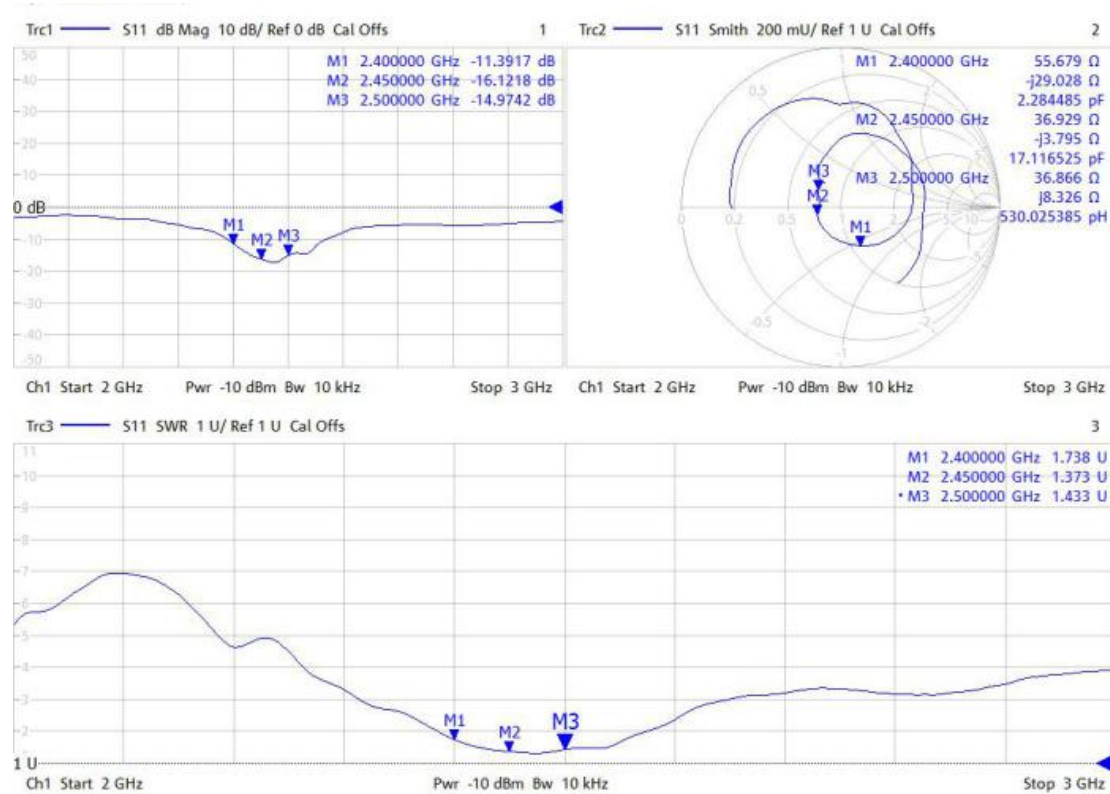
Version	Date	Develop/revise content	Formulate	approval
A0	2024.03.11	First formulation	Qiucui ping	LvJie/Liulihua
A0-0319	2024.03.19	Update the size of antenna shrapnel, and increase the marking of pin center	Qiucui ping	LvJie/Liulihua
A0-0429	2024.06.06	Optimize antenna structure	Qiucui ping	LvJie/Liulihua
A0-0606	2024.06.06	Optimize antenna structure	Qiucui ping	LvJie/Liulihua

二、2D Drawings



三、Electrical performance test report (Whole machine testing)

S11 Parameter



Standing wave ratio data

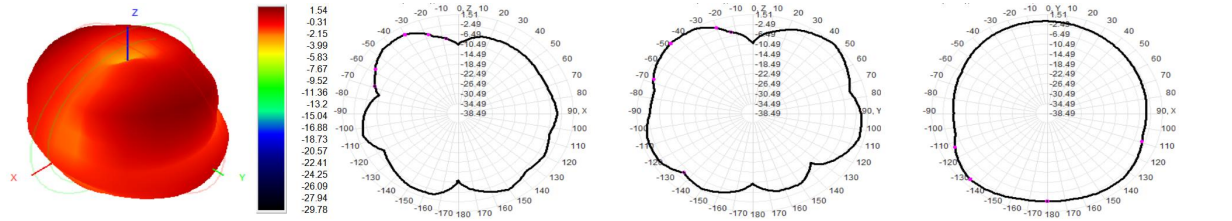
Freq/MHz	2400MHz	2450MHz	2500MHz
VSWR	1.73	1.37	1.43

WIFI Antenna darkroom test dataWIFI

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-2.95	2.45	50.65
2410.0	-2.93	2.76	50.96
2420.0	-2.95	2.87	50.69
2430.0	-2.81	2.91	52.31
2440.0	-2.80	2.88	52.46
2450.0	-2.96	2.50	50.60
2460.0	-2.85	2.50	51.92
2470.0	-2.87	2.48	51.66
2480.0	-2.86	2.61	51.74
2490.0	-2.89	2.49	51.42
2500.0	-2.95	2.46	50.75

Antenna direction diagram

2400M 3D-E1-E2-H



2450M 3D-E1-E2-H

