SPECIFICATIONS FOR APPROVAL

Customer Name:		Shenzhen Creality 3D Technology Co.,LTD				
Product Name:						
Produc	ct Model:					
Part Number:		LJNF02-24060408-R0A				
Write By :		Limingjin				
Issued Date:		2024-06-04				
CUST	OMER					
ENGINEER R&D DEPT		BUSSINESS DEPT		APPROVAL		
LEJIN						
R&D DEPT		ENGINEER DEPT		APPROVAL		
REV	MODIFIED DES	SCRIPTION	DATE		REMARK	

2024/06/04

V1.0

Initial Draft Release

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3. Product Specification

A. Electrical Characteristics						
Frequency	13.56MHz					
VSWR	\leq 3.0					
Efficiency	N/A					
Impedance	50~90Ohm					
Polarization	N/A					
Gain	N/A					
B. Material & Mechanical Characteristics						
Material of Radiator	Internal FPC(M659A)					
Cable Type	Φ0.9mm,{ HYPERLINK					
Connector Type	1.25Pin*2					
Dimension	40.0mm*14.5mm					
C. Environmental						
Operation Temperature	- 20 °C ~ + 50 °C					
Storage Temperature	- 30 °C ~ + 80 °C					
Humidity	40%~95%					

4.Test Equipment & Conditions

1.Network Analyzers Agilent 8753D/5071C

2.HSPA and LTE protocol test set R&S CMW500 -PT

3.Spectrum analyzer RS FPS8 FSH4

4.3D Chamber Test System

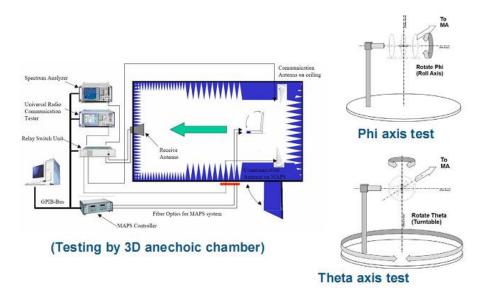
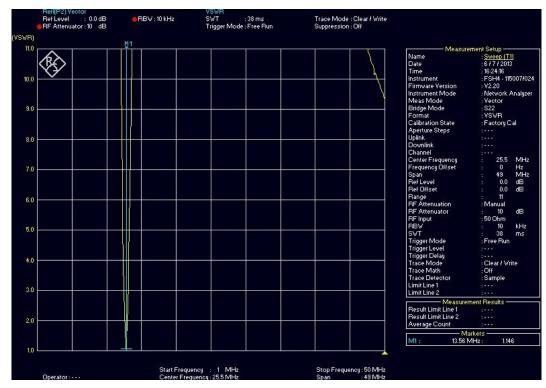


图 1 test topology

5.Test Report



5.1 Matching network.

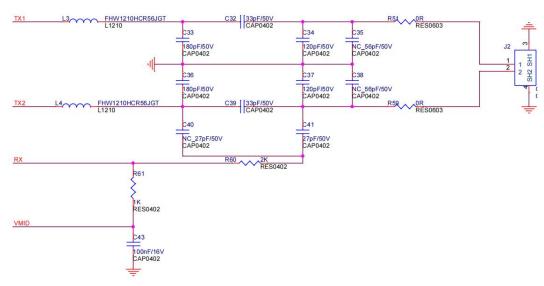


Chart 2 Matching network

5.2 NFC(13.56MHz) parameter.

Inductance:1.59UH; Capacitance:39PF; Quality factor:39; Impedance:1.26 Ω

Performance: Class A/B/F card:0.1% Error rate.

6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
1	Test	Remperature Chamber, keep the temp is 25 C and	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
2	Temp./High Humid Storage Test	Temperature: 85°C Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25°C and humidity is 65% for one hour, then step-up the temp. to 80°C and the humidity up to 85% in one hour, store antenna for 44 hours; step-down tempto 25°C ,test antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
3	6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: $35\pm2^\circ$ C Humidity: 85% NaCl salt spray :5 $\pm1\%$.PH value :6.5 \sim 7.2 Testtime:24hours	Salt-Spray Tester	No color change No appear rusting	PASS

7.Real picture

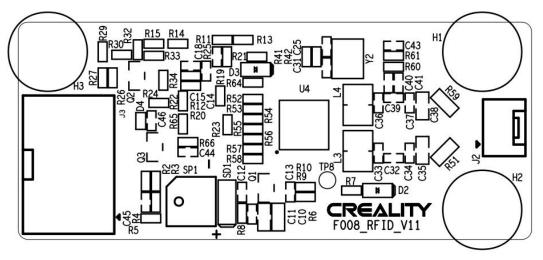


Chart 3 PCB layout

8.Product Drawing

