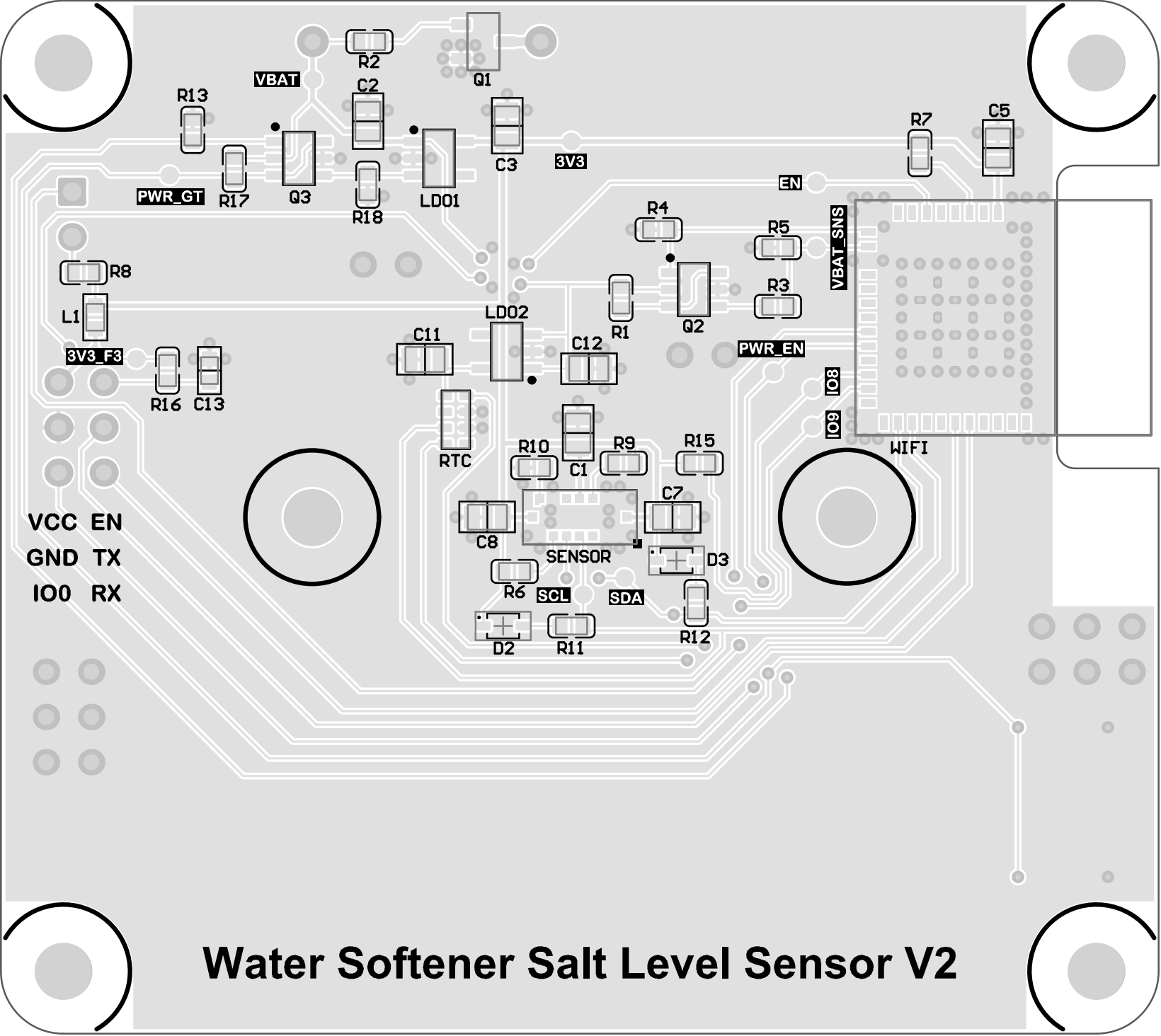


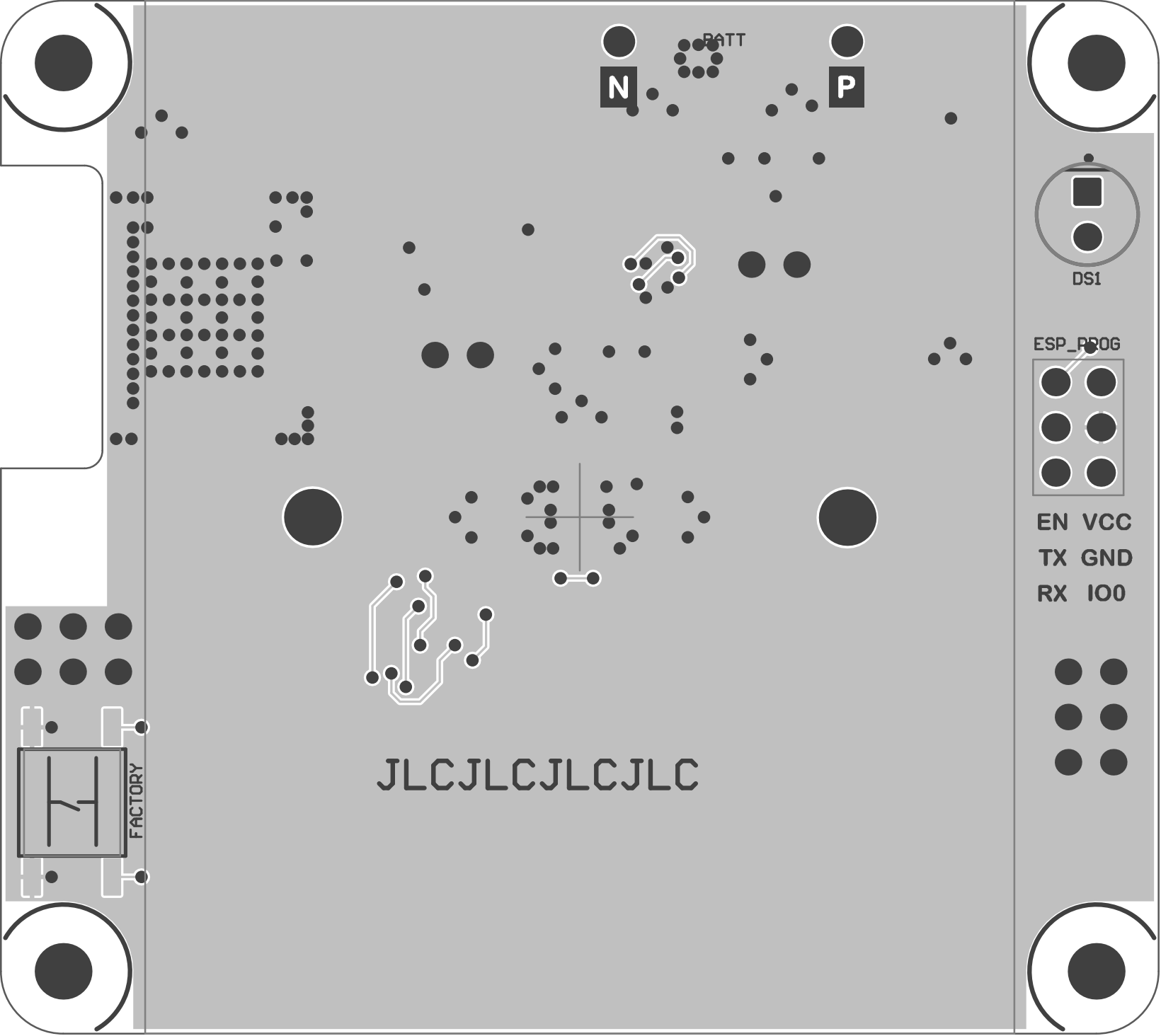
## Distance Sensor 2

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Revision 1  
Saved on 04/11/2023

Sheet 1 of 1



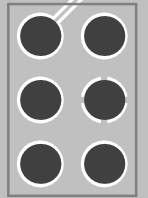


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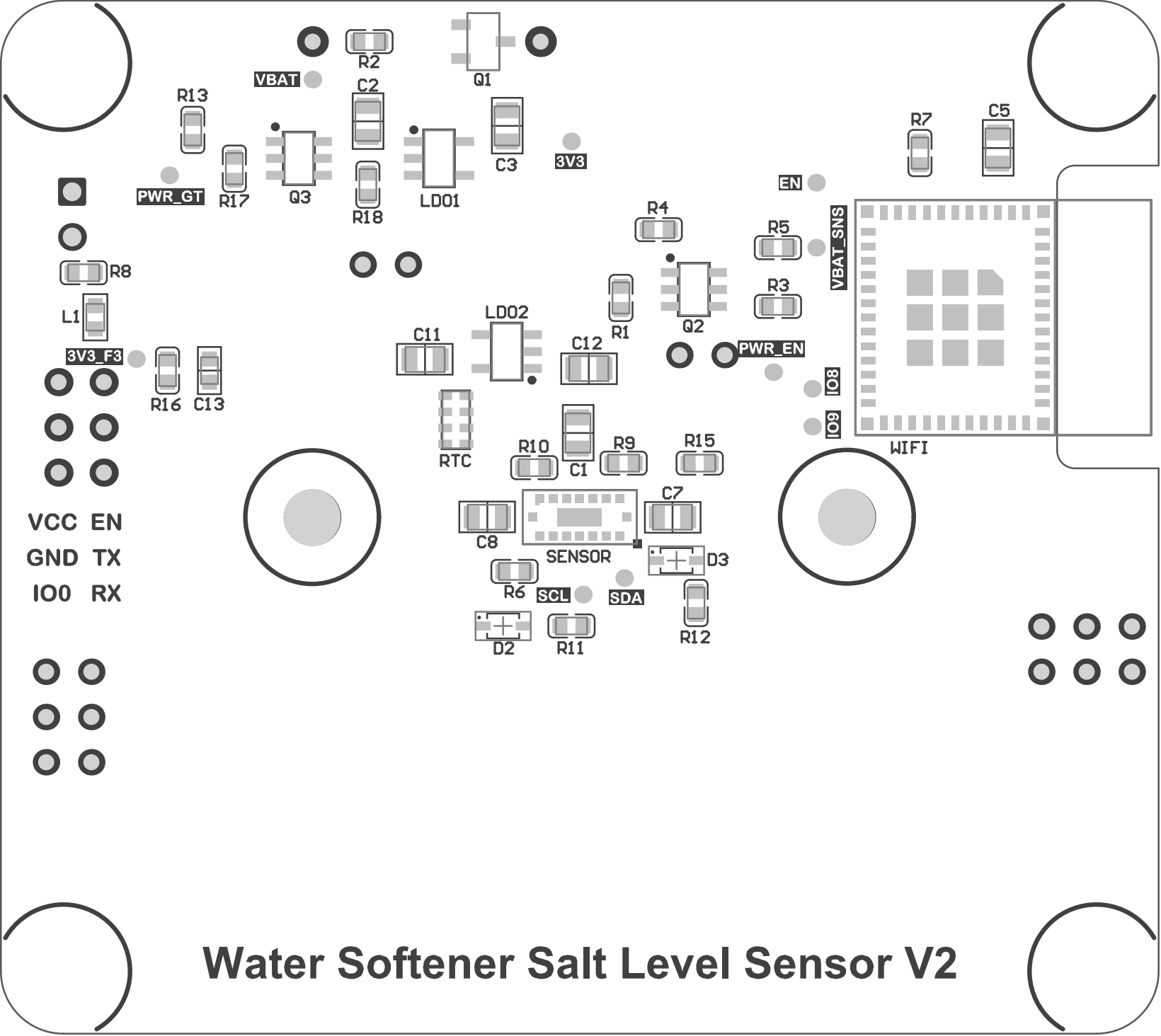


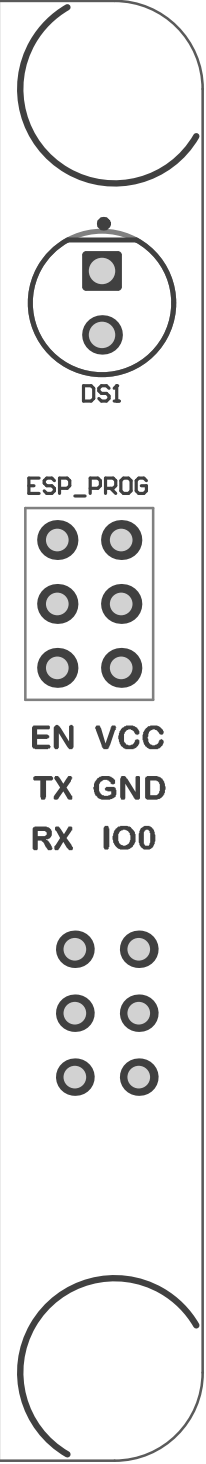
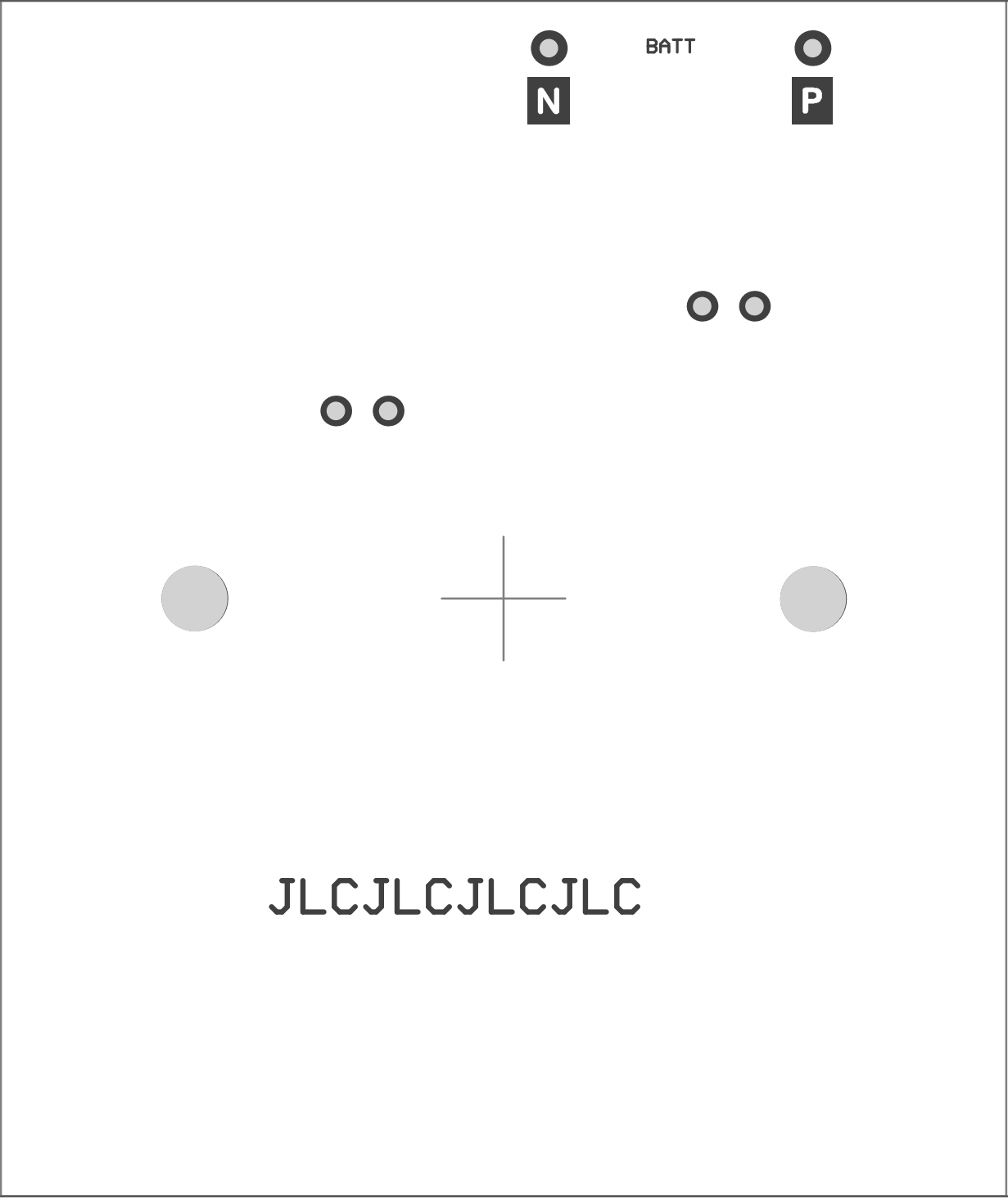
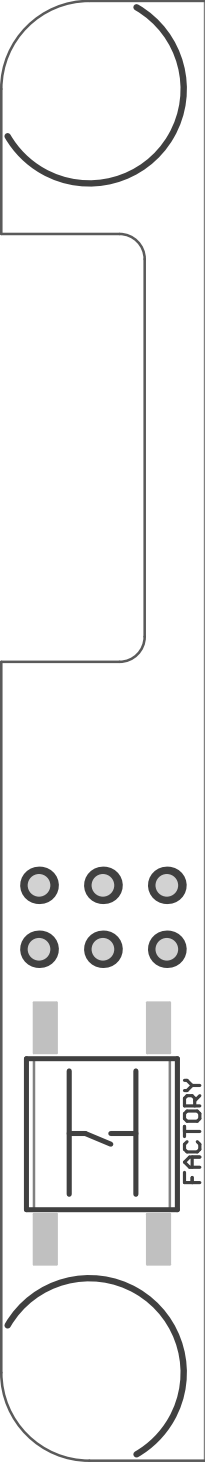
EN VCC  
TX GND  
RX IO0

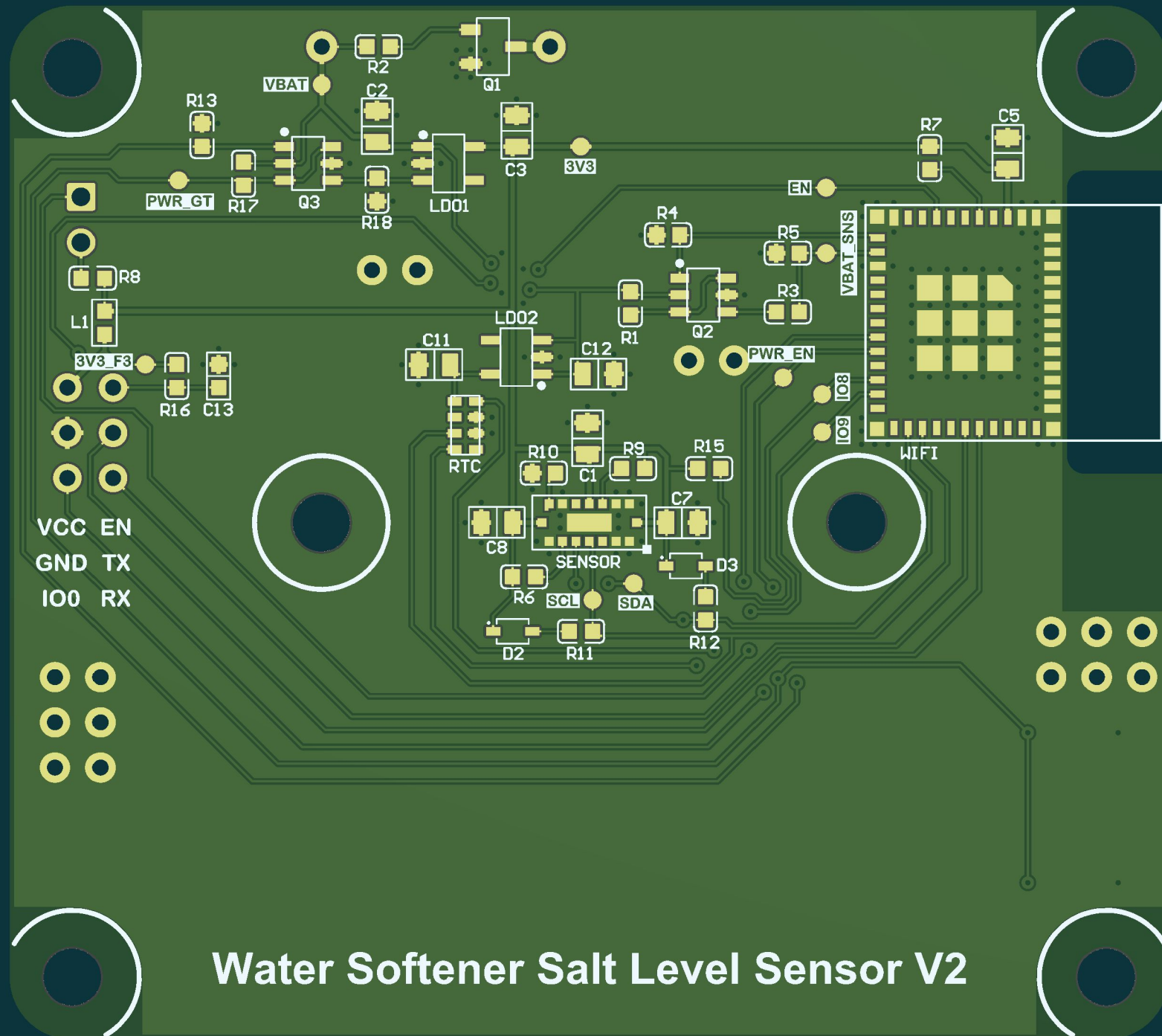


JLCJLCJLCJLC

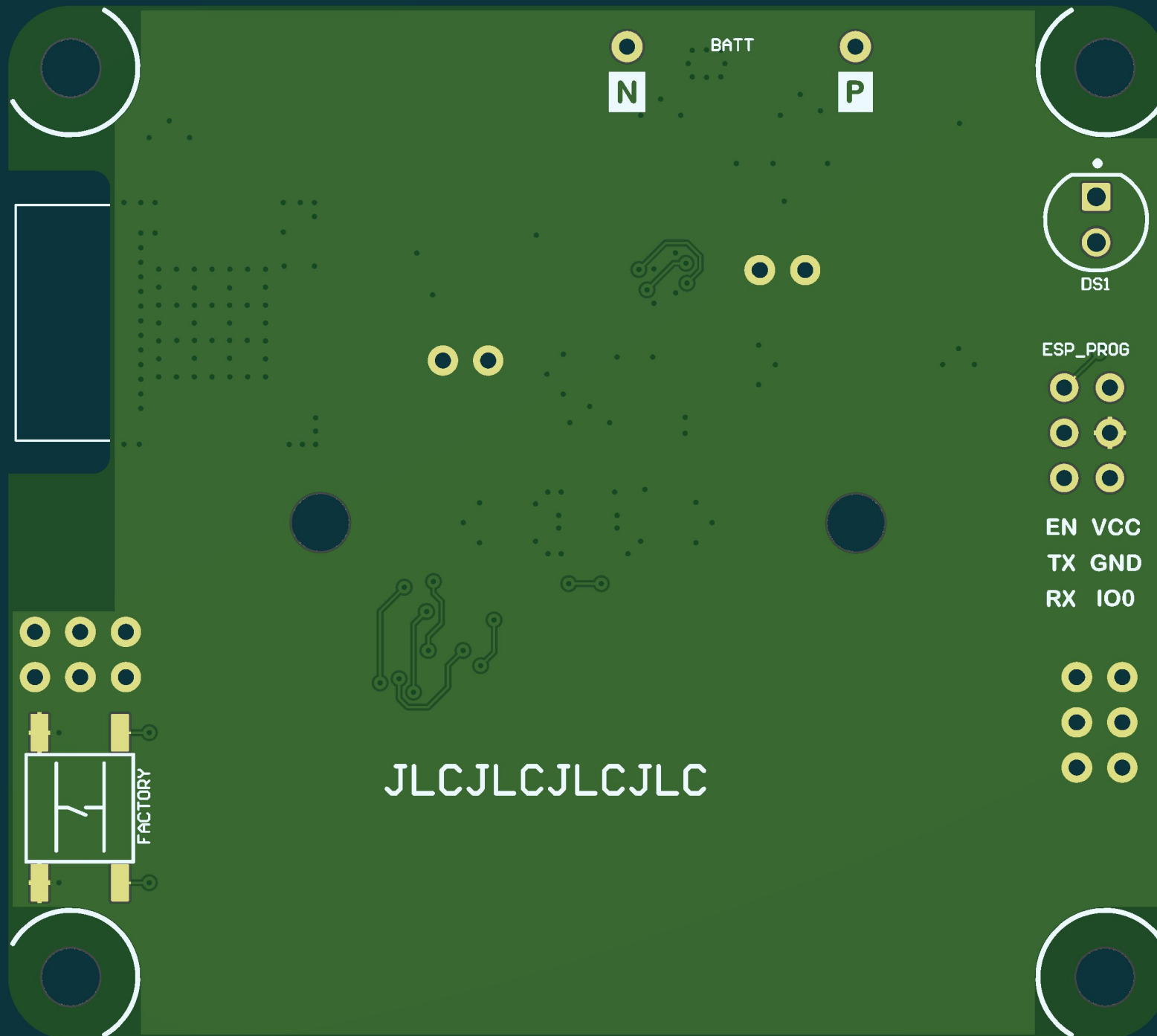
FACTORY







Water Softener Salt Level Sensor V2



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ESP\_PROG

EN VCC  
TX GND  
RX IO0

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FACTORY

Designator	Quantity	Name	Footprint	Description
LDO1	1	SPX3819M5-L-3-3	SOT23-5	
LDO2	1	AP2139AK3.3	SOT23-5	
FACTORY	1	4-1437565-1	FSM-SWITCH	6x6mm tactile switch SPST_NO
L1	1	1.6nH	INDUCTOR_0603	Inductor
DS1	1	4mA	LED 5mm through hole	LED
C1	1	100nF	CAP 0805_2012	MLCC
C2, C3, C5	3	4.7uF	CAP 0805_2012	MLCC
C7, C8, C11, C12	4	2.2uF	CAP 0805_2012	MLCC
C13	1	1uF	CAP 0603_1608	MLCC
Q1	1	MOSFET-N	SOT95P230X110-3L	N Channel MOSFET. 300mA
Q2, Q3	2	MOSFET-NP	DMG6601LVT	N/P Channel MOSFET
RTC	1	RV-8263-C7	RV-8263-C7	Real-Time Clock Module
R1, R4, R6, R7, R8, R9, R10, R16	8	47K	RES 0603_1608	Resistor
R2, R13, R15, R17, R18	5	47K	RES 0603_1608	Resistor
R3, R5	2	10K	RES 0603_1608	Resistor
R11, R12	2	2K2	RES 0603_1608	Resistor
D2, D3	2	BAT20JFILM	SODFL250X100-2L	Schottky Diode 20v 500mA
SENSOR	1	VL53L5CXV0GC	VL53L5CXV0GC1	TOF distance sensor
WIFI	1	ESP32-C3-MINI-1-N4	XCVR_ESP32-C3-MINI-1-N4	Wifi module ESP32-C3



## Design Rules Verification Report

Filename : U:\dev\distance\_sensor\pcb\distance\_sensor\_v2\distance\_sensor\_v2.PcbDoc

Warnings 0  
Rule Violations 0

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=0.127mm) (All),(All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ( All )	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.127mm) (Max=1.27mm) (Preferred=0.127mm) (All)	0
Power Plane Connect Rule(Relief Connect )(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Hole Size Constraint (Min=0.3mm) (Max=5mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.08mm) (All),(All)	0
Silk To Solder Mask (Clearance=0.254mm) (False),(All)	0
Silk to Silk (Clearance=0mm) (All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) (OnSignal)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Preferred=12.7mm) (All)	0
Total	0

Electrical Rules Check Report

Class	Document	Message
		Successful Compile for