

Pawport Smart Pet Door Internal Photos

Inside Doors

UWB Transceiver Boards

There are 2 UWB transceiver boards in the inside door. One is located under the top cap to detect pet presence inside the home and one in the left door to detect pet presence external of the home. The same board is used in both locations.



Figure 1. Inside Door Transceiver Location (Inside Detection)

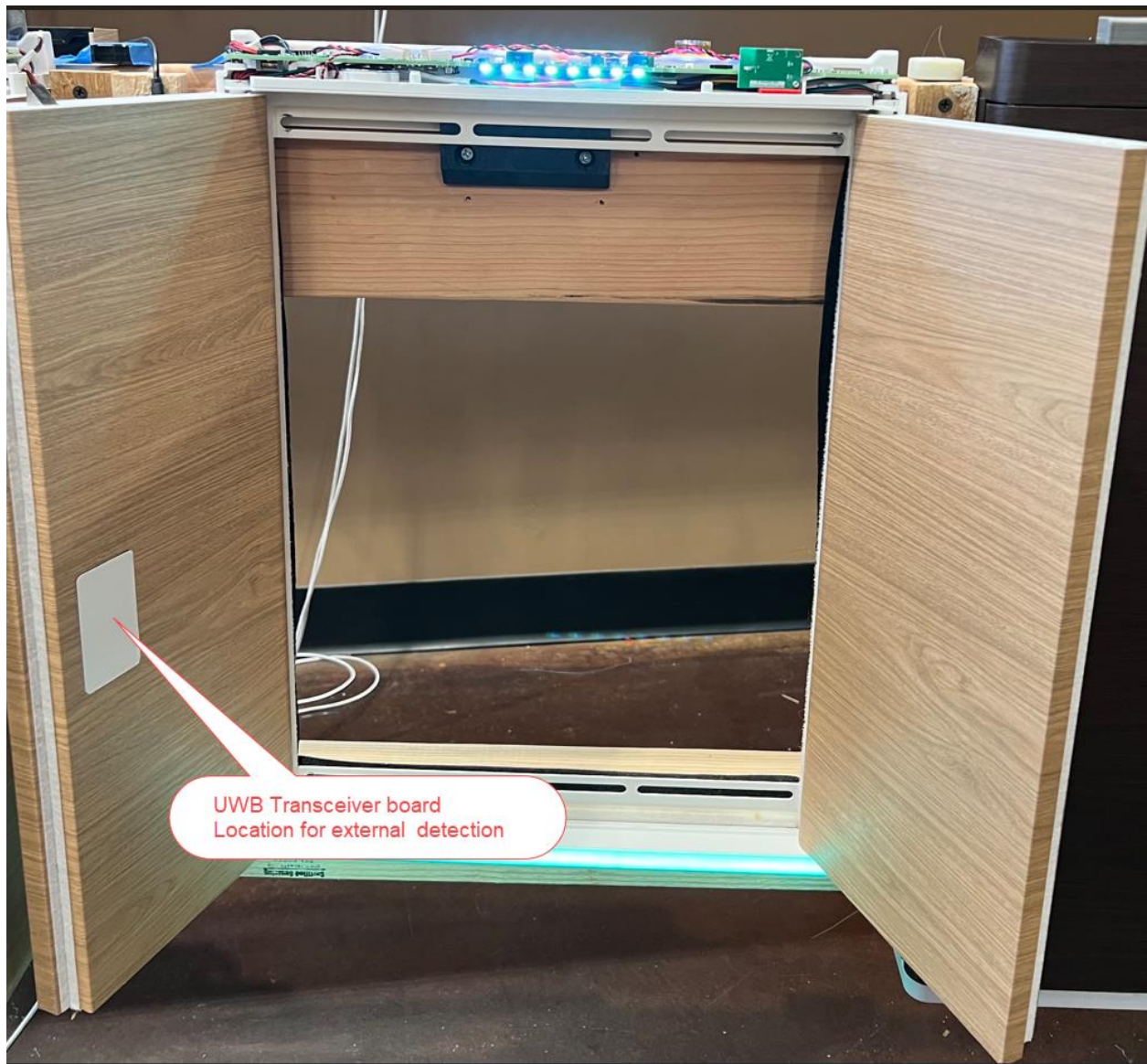


Figure 2. Inside Door Transceiver (External Detection)

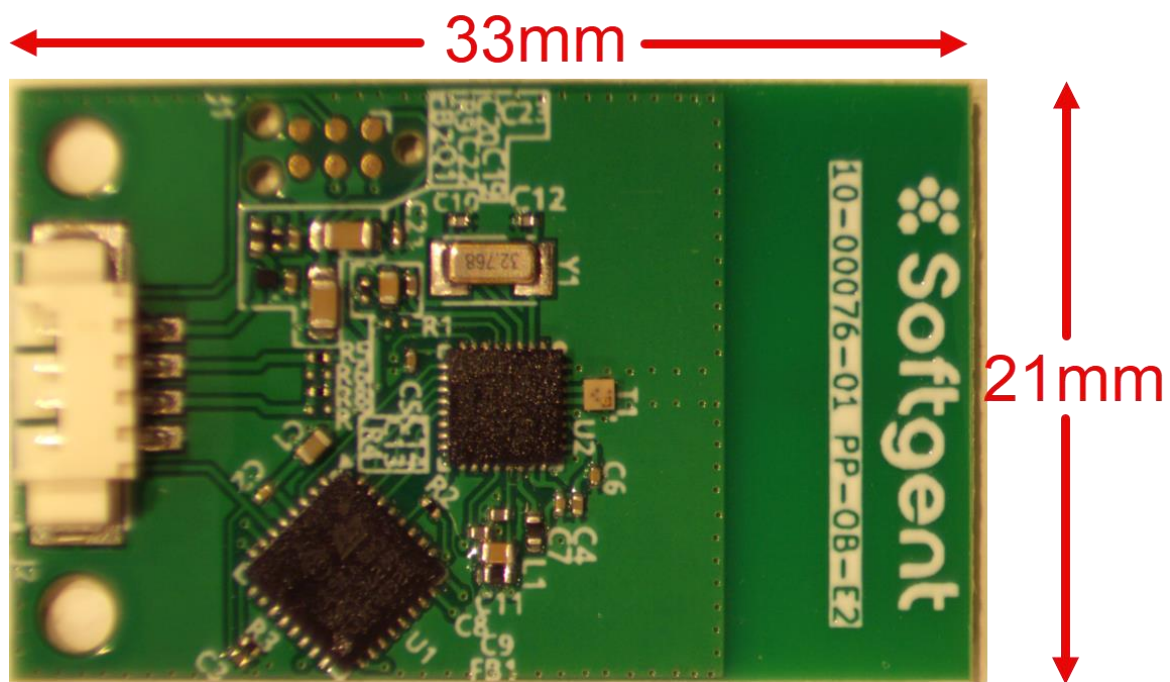


Figure 3. Inside Door Transceiver (Top View)

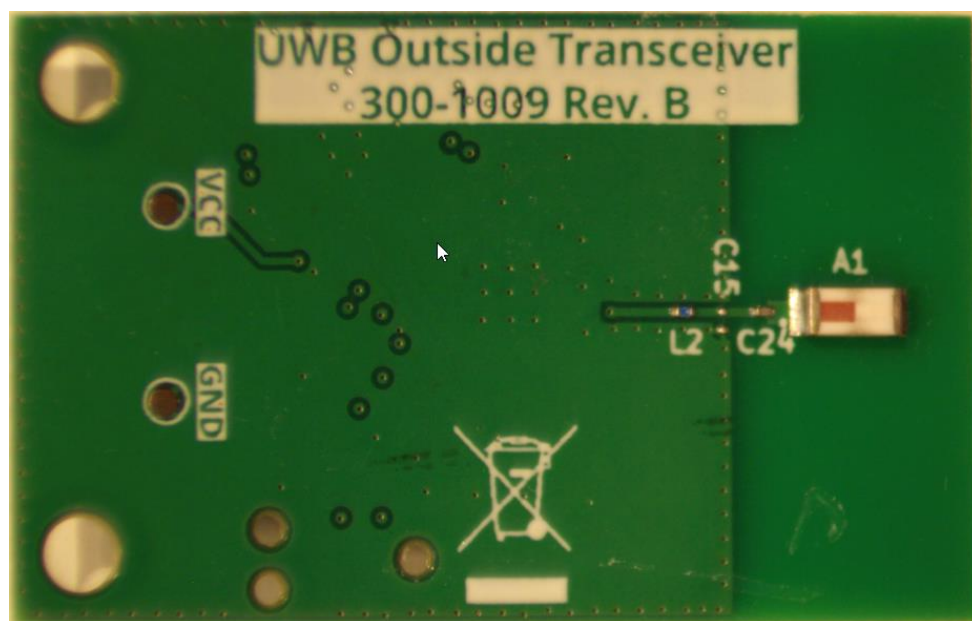


Figure 4. Inside Door Transceiver (Bottom View)

Top Board

The top board is the main board in the product that has the pre-certified ESP32 Wi-Fi/BT module (FCC ID: 2AC7Z-ESP32WROOM32E).



Figure 5. Top Board Location



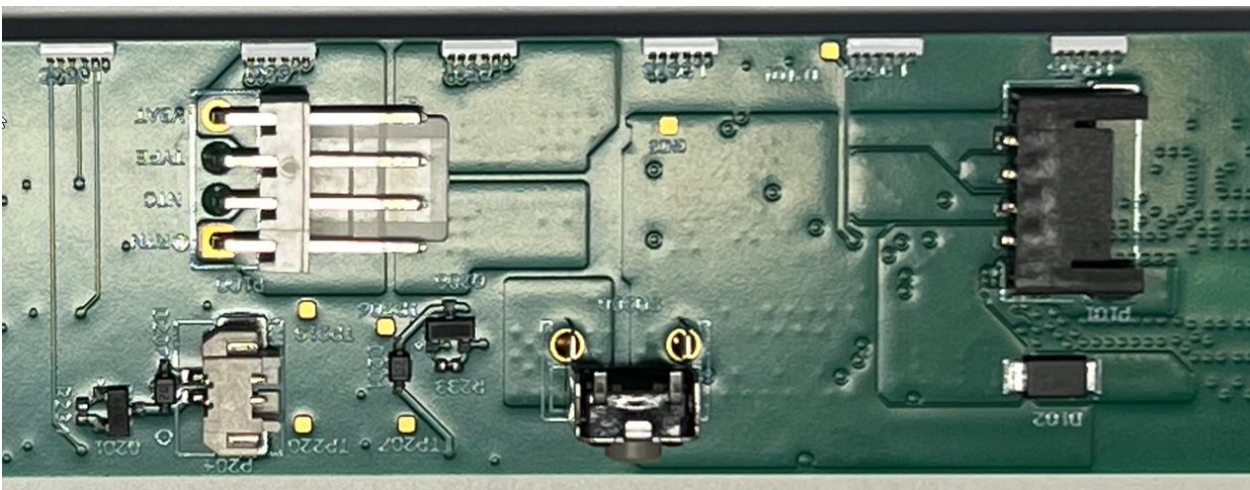
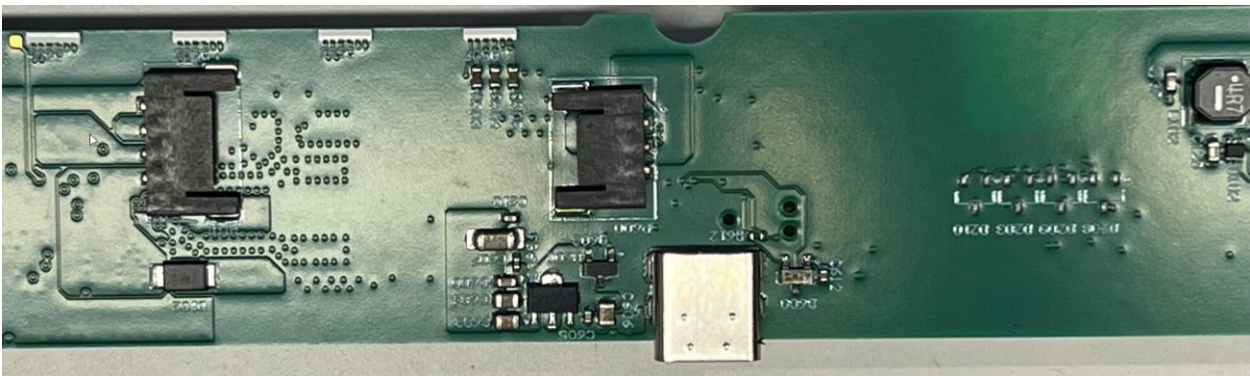
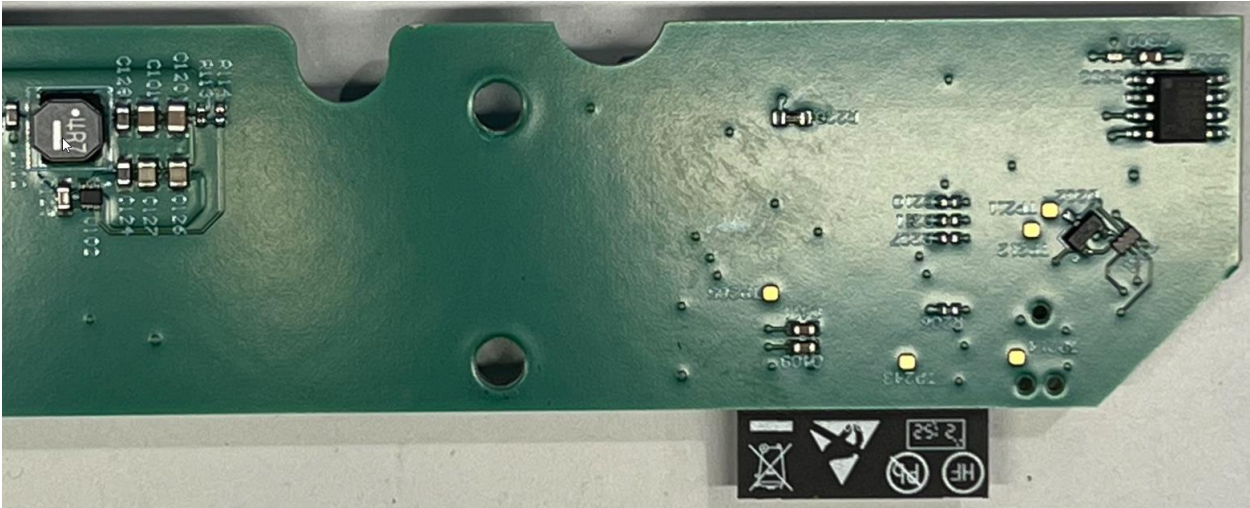
Figure 6. Top Board Top View



Figure 7. Top Board Top View Zoomed In. (From Left to Right)



Figure 8. Top Board Bottom View



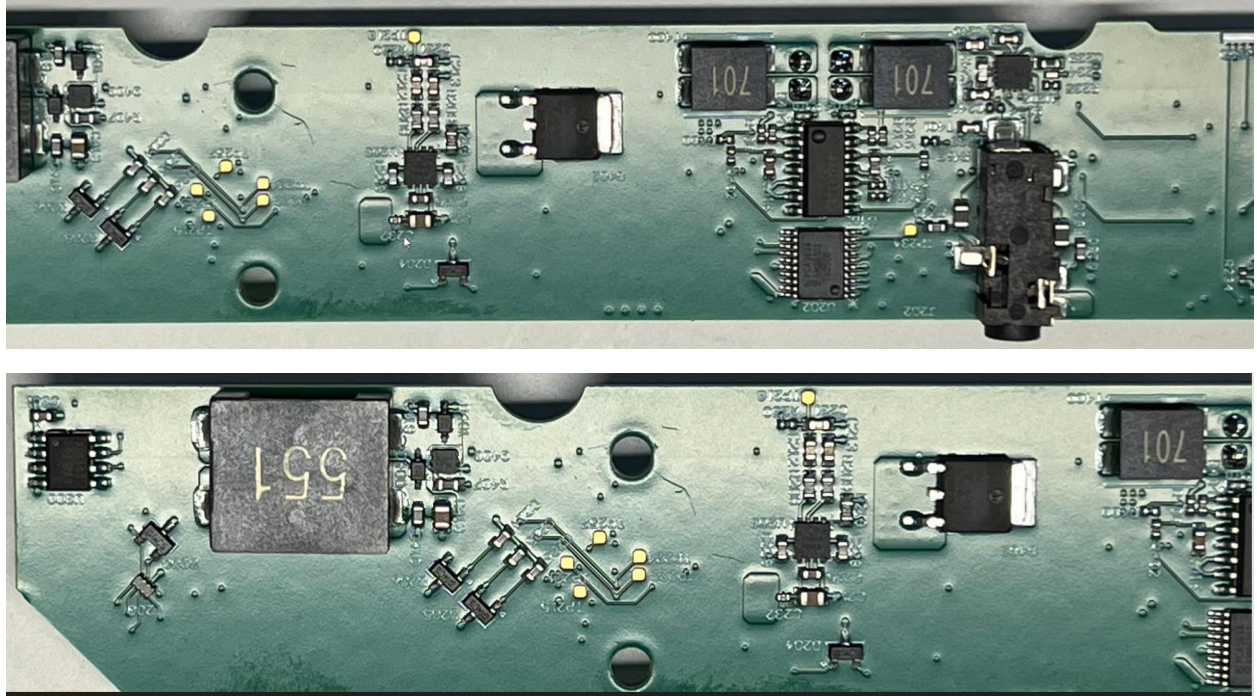


Figure 9. Top Board Bottom View Zoomed In (Left to Right)

Bottom Board

The bottom board is used for LED lighting and power.



Figure 10. Bottom Board Location



Figure 11. Bottom board with bottom Cap Removed

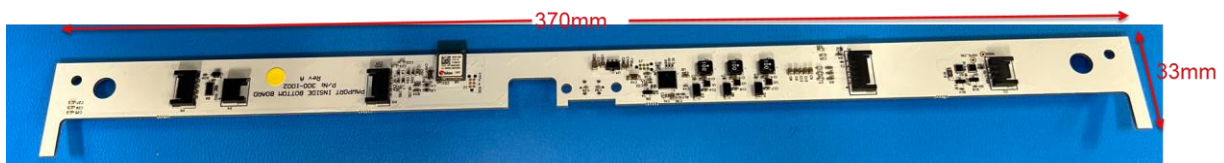


Figure 12. Bottom Board Top View

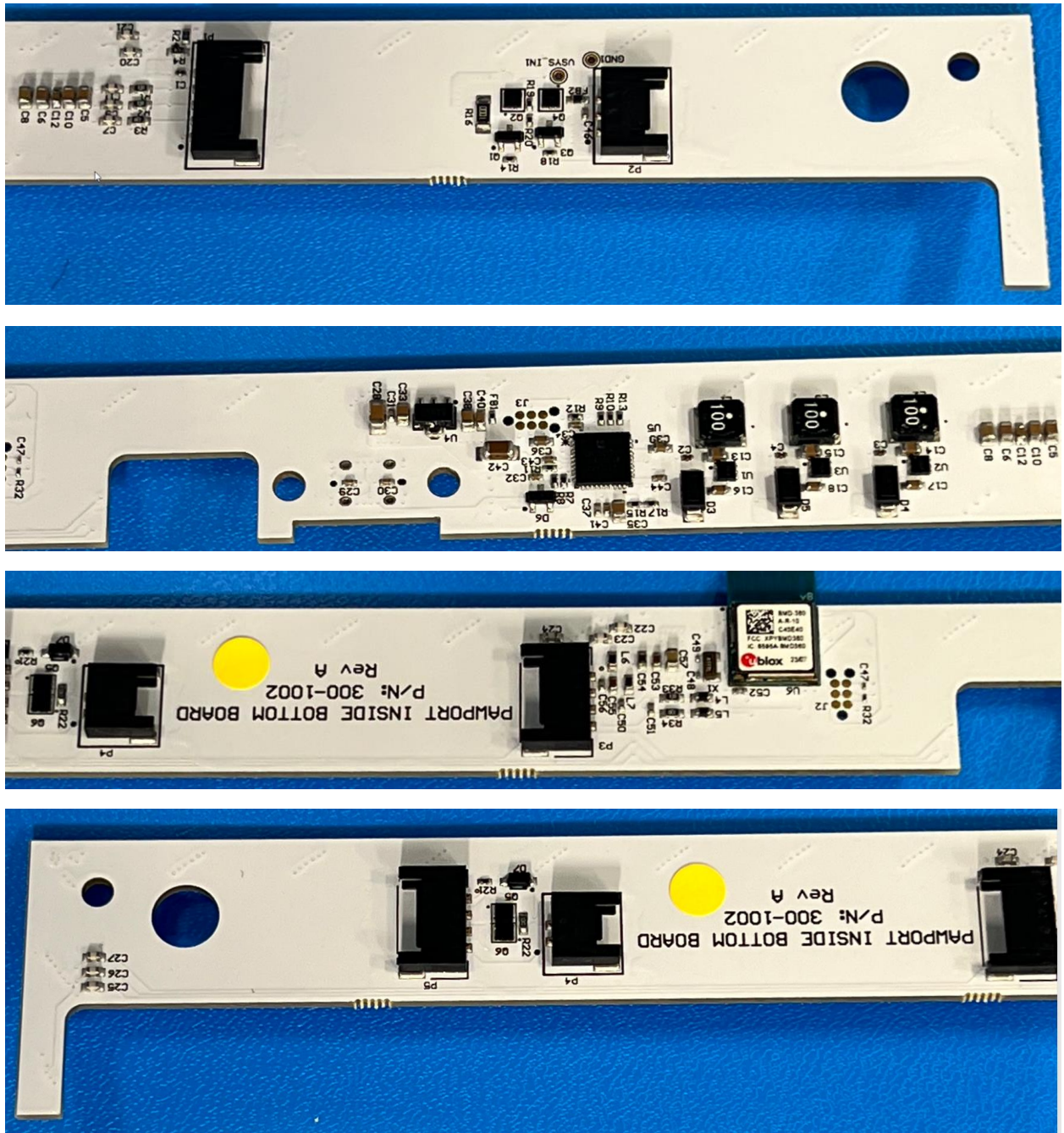


Figure 13. Bottom Board Top View Zoomed IN (Left to Right)

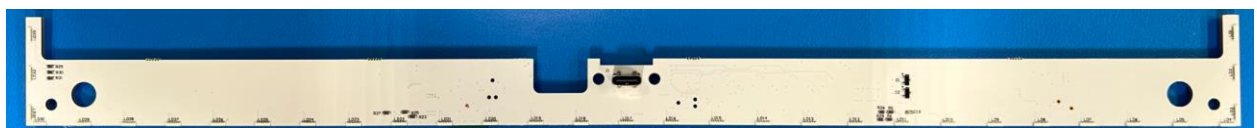


Figure 14. Bottom Board Bottom View

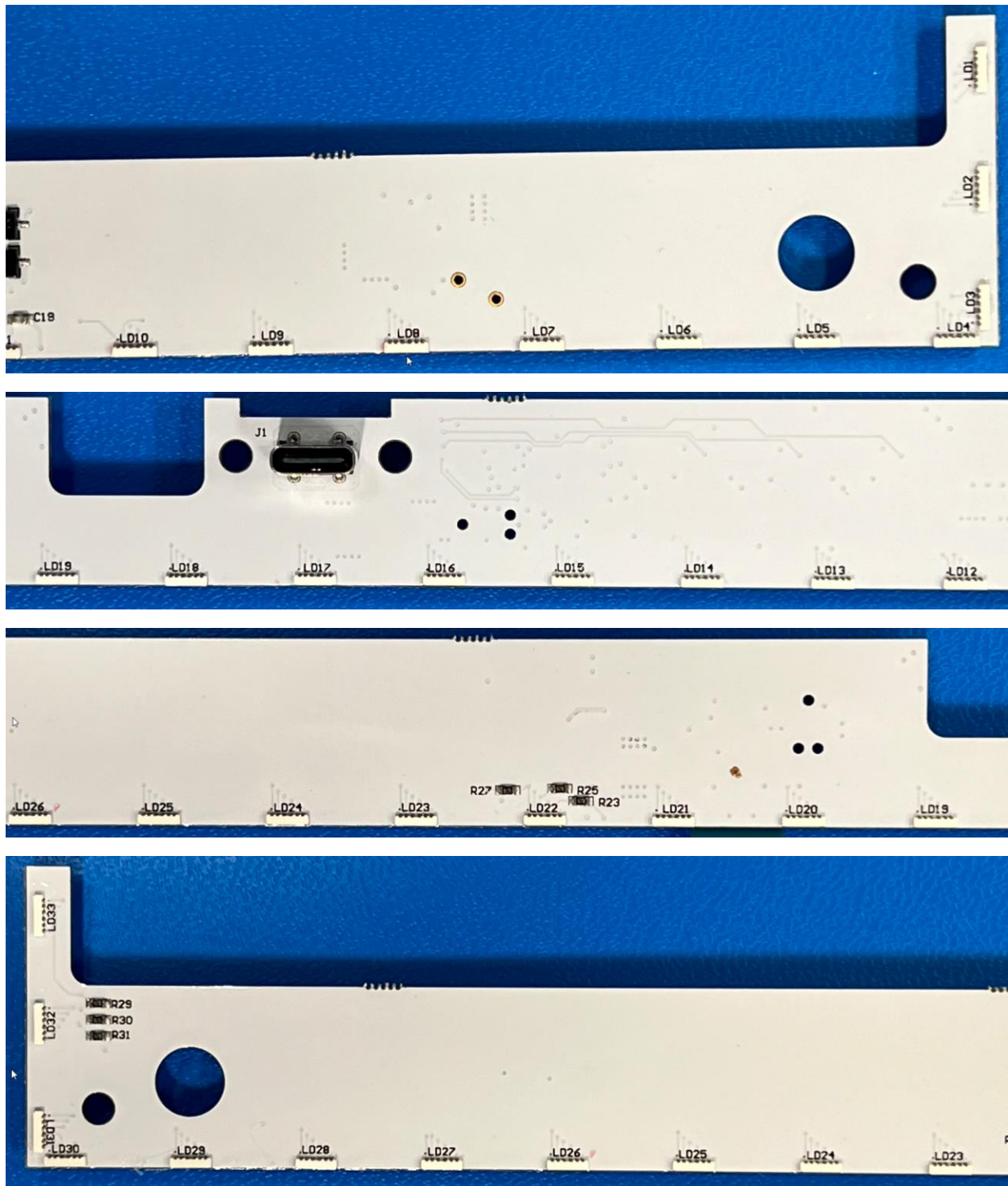


Figure 15. Bottom Board Bottom View Zoomed In (Left to Right)

Optional External Doors

UWB Sensor

The external UWB sensor is used when there is an external door. It is used in place of the UWB Sensor board located in the left inside door. The external sensor board mounts above the external motor board and is connected with cables. There are 2 boards for the external UWB Sensor (RF Board and MCU Board).



Figure 16. External Sensor Board Location



Figure 17. External Sensor Board (Top Cap Removed)

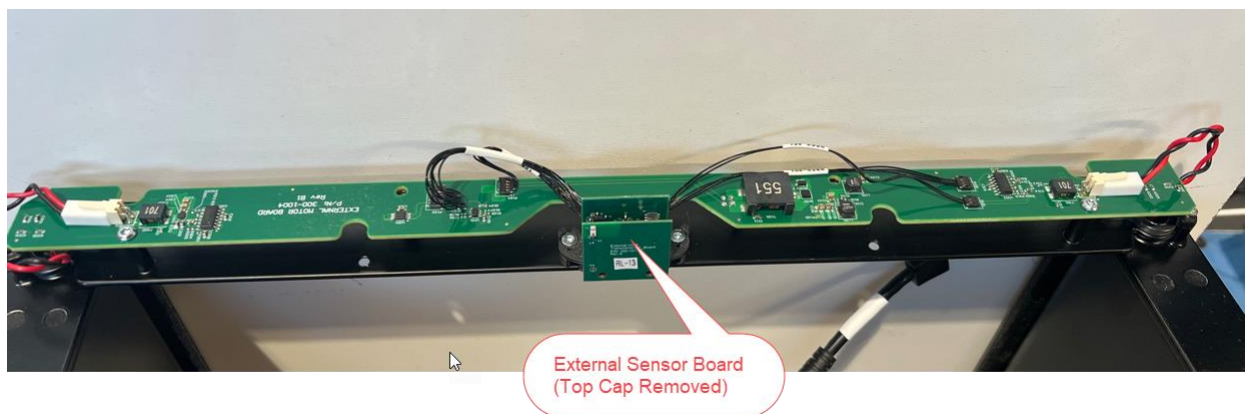


Figure 18. External Sensor Boards (Top Cap Removed)

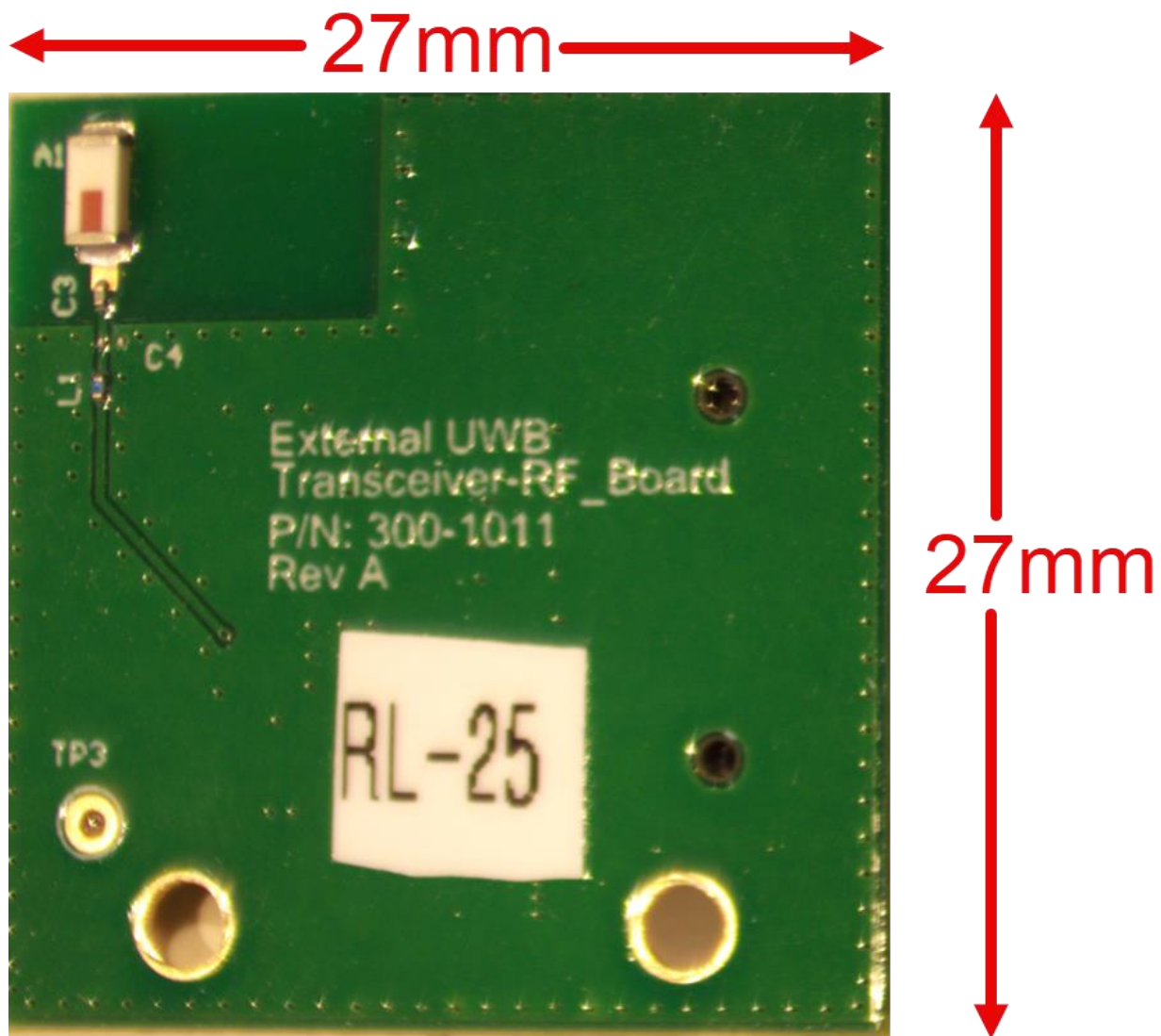


Figure 19. External UWB Transceiver RF Board Top View

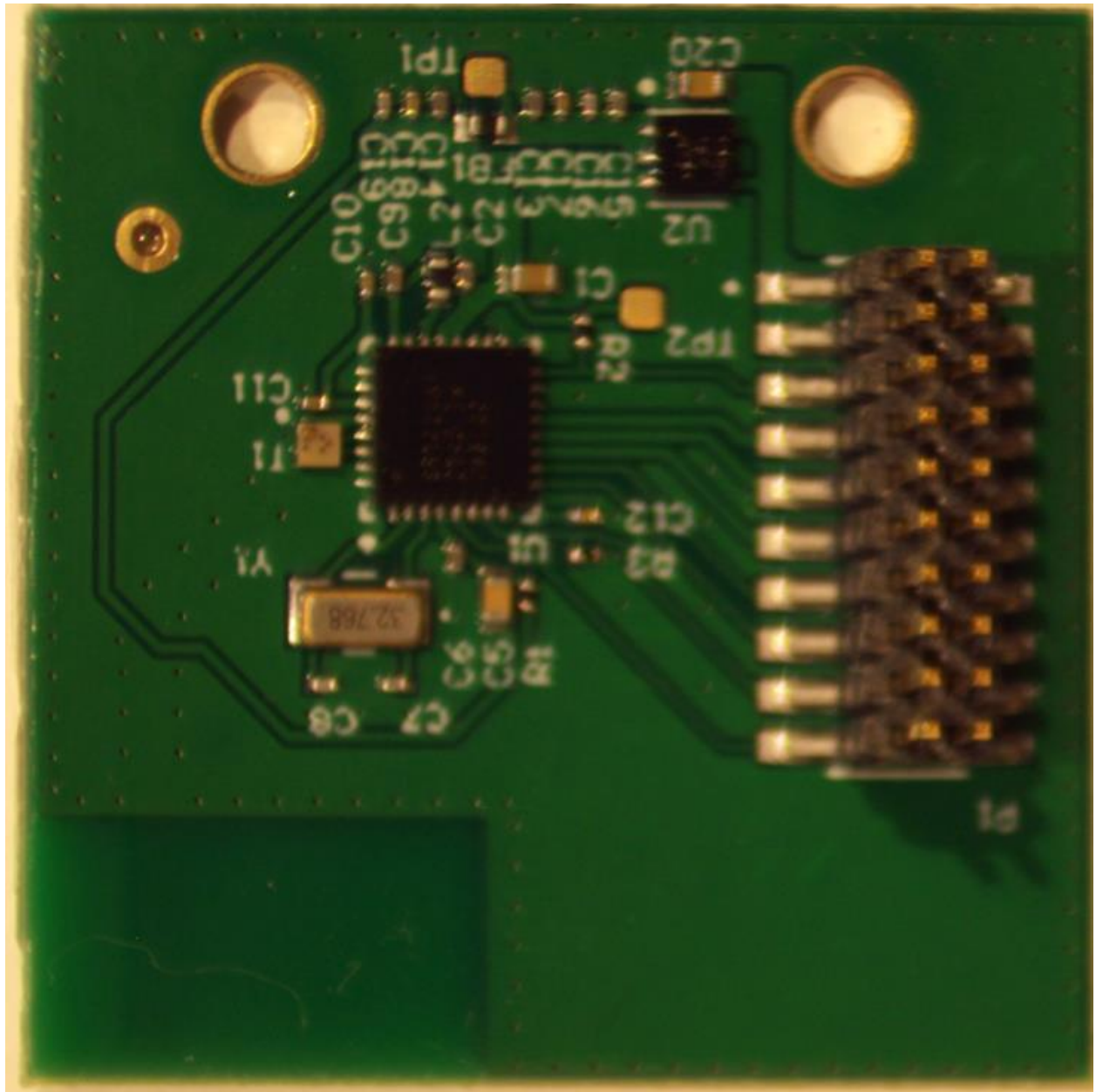


Figure 20. External UWB Transceiver RF Board Bottom View

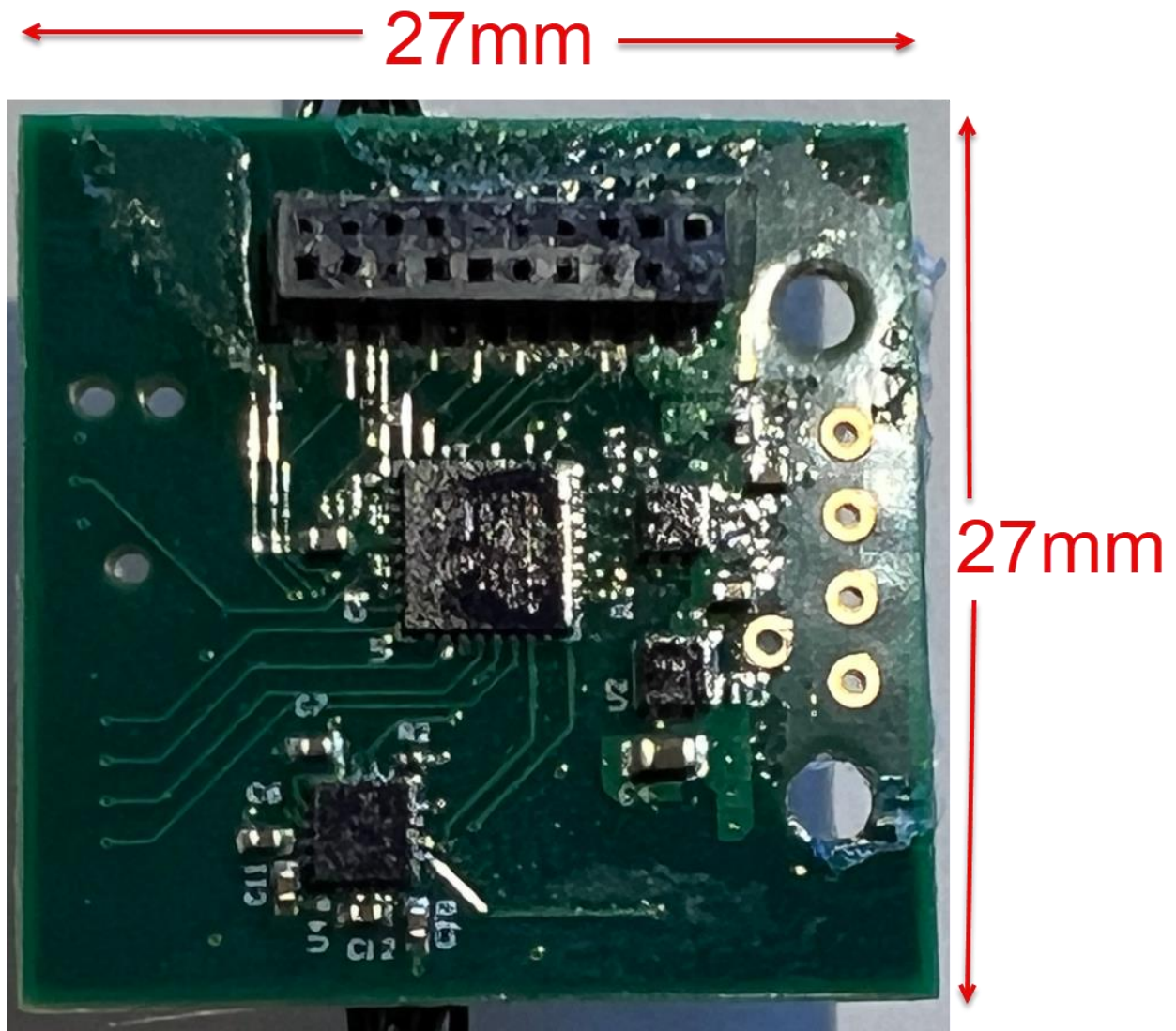


Figure 21. External UWB Transceiver MCU Board Top View

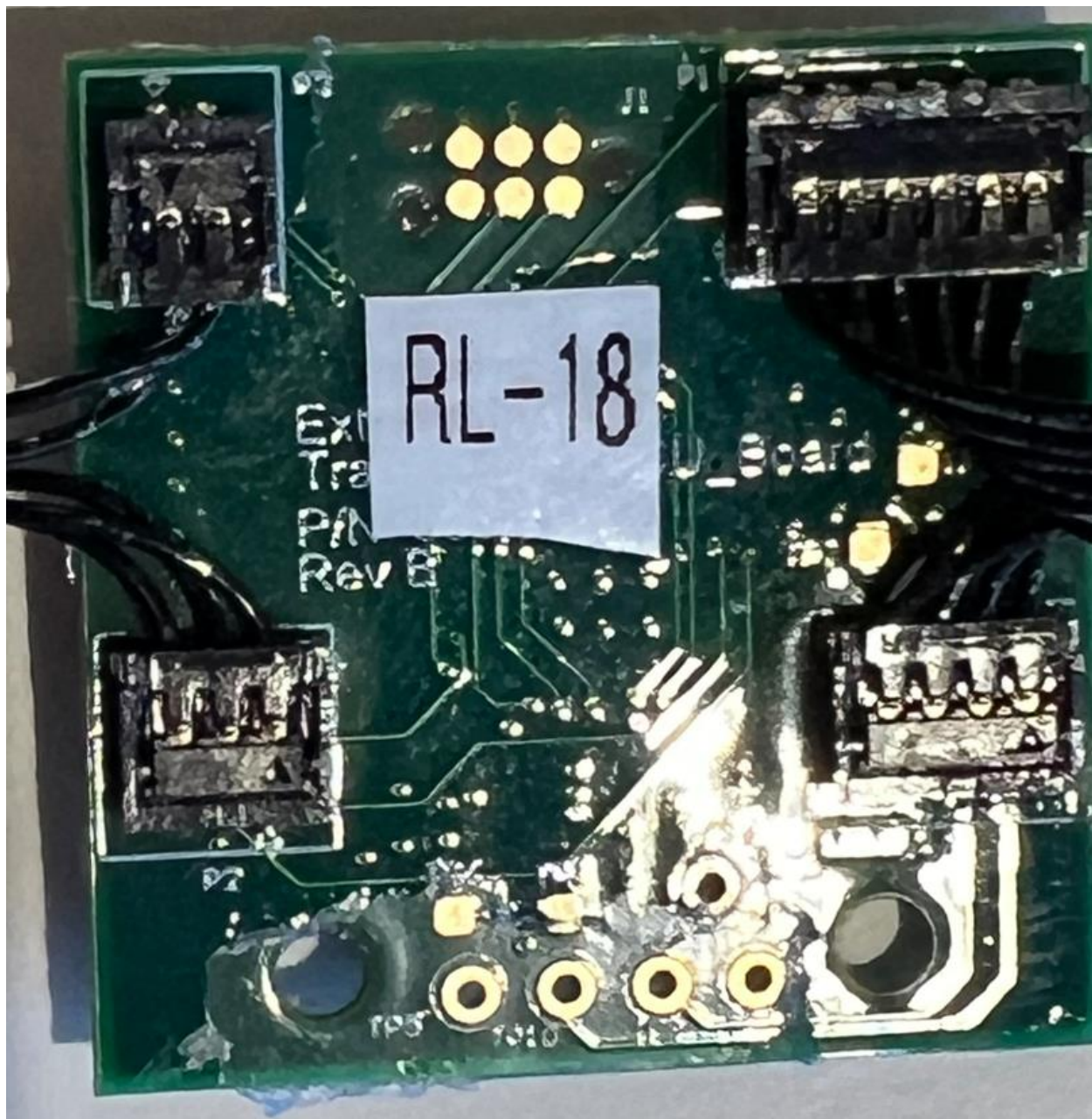


Figure 22. External UWB Transceiver MCU Board Bottom View

Optional Exterior UWB Sensor

This is an optional standalone exterior UWB sensor for cases that the UWB Sensor Board in the left inside door does not adequately detect outside of the home. It uses the exact same boards used for the external doors.



Figure 23. Standalone External Sensor Internal View

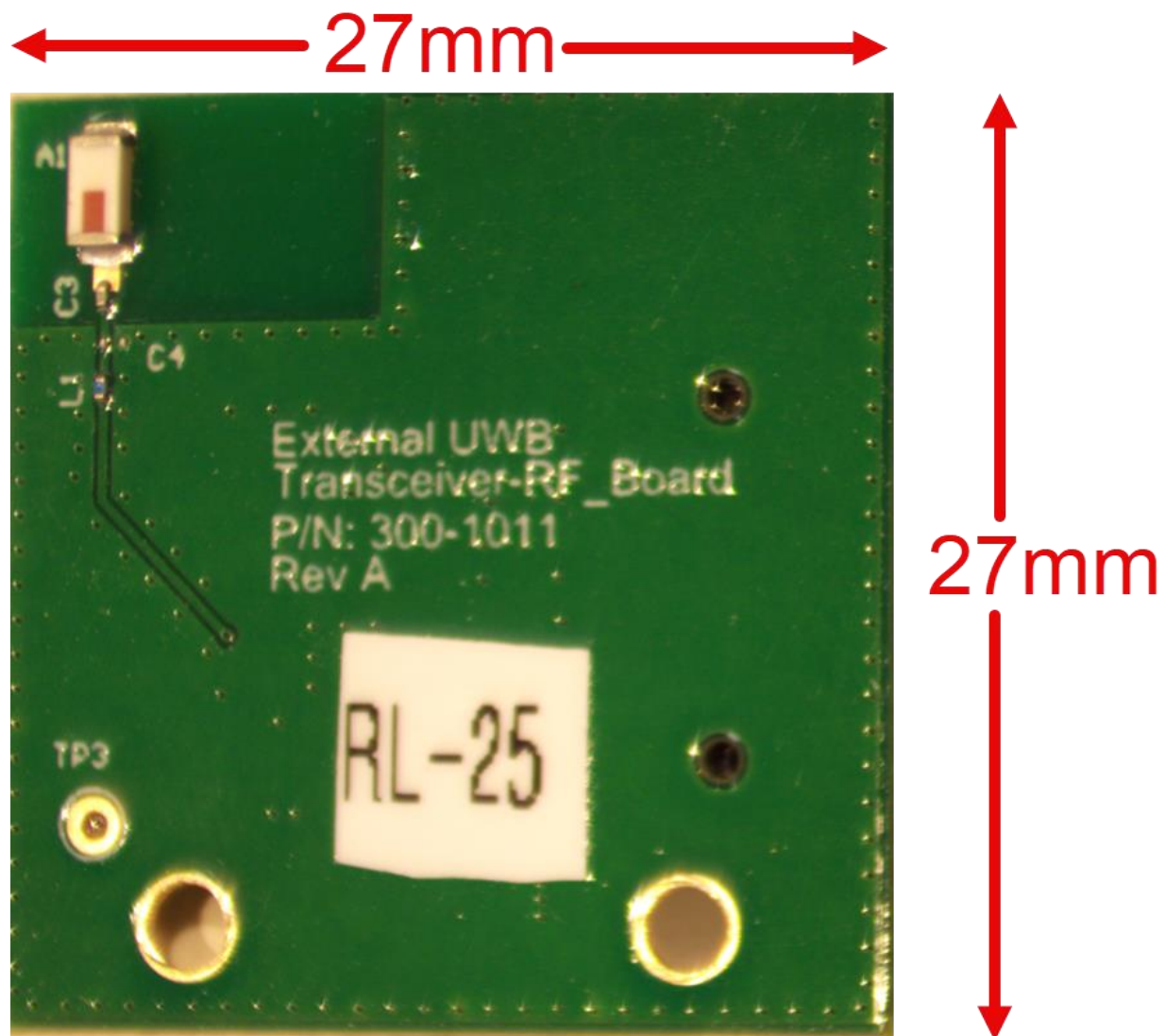


Figure 24. External UWB Transceiver Board (Top)

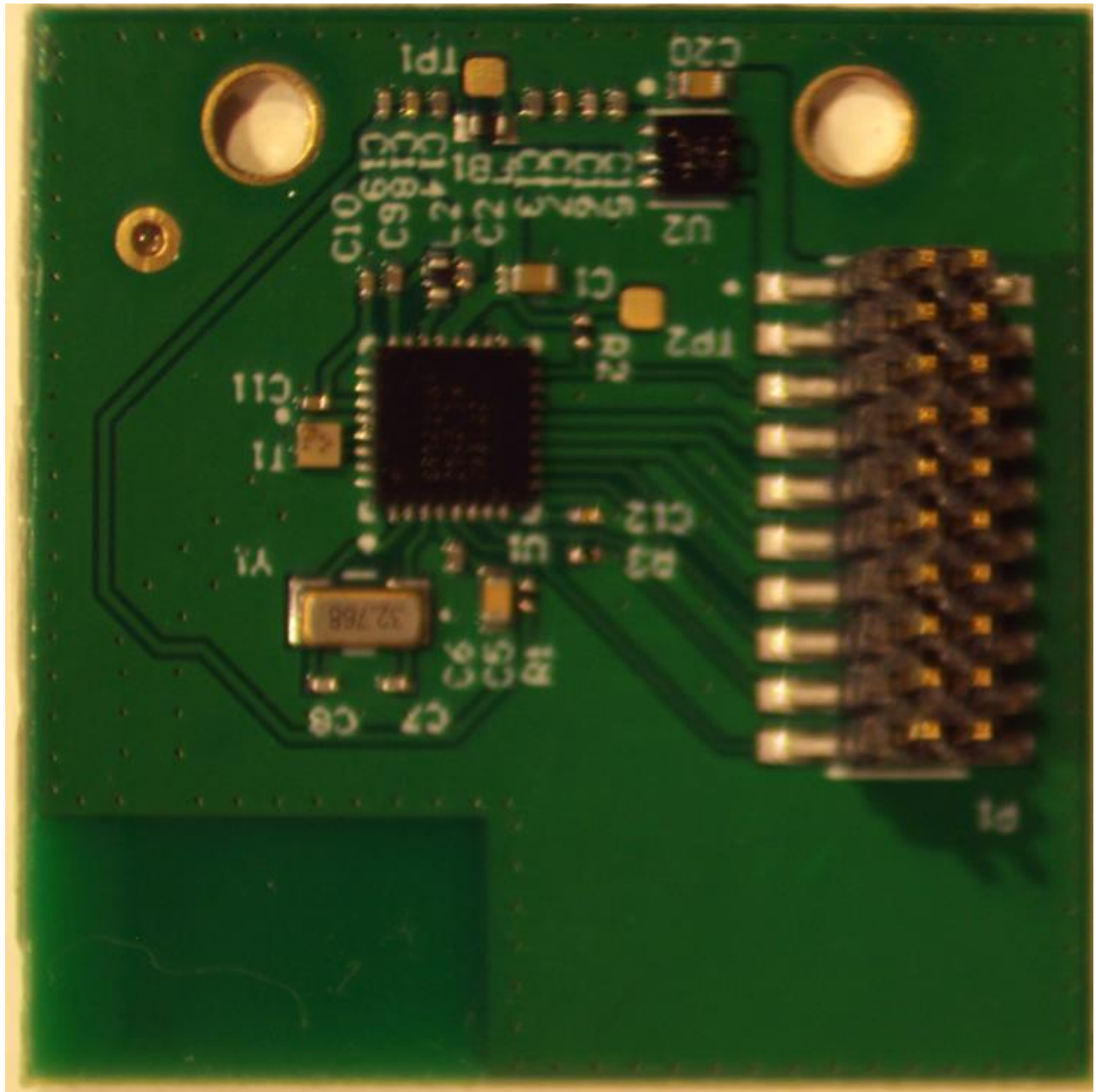
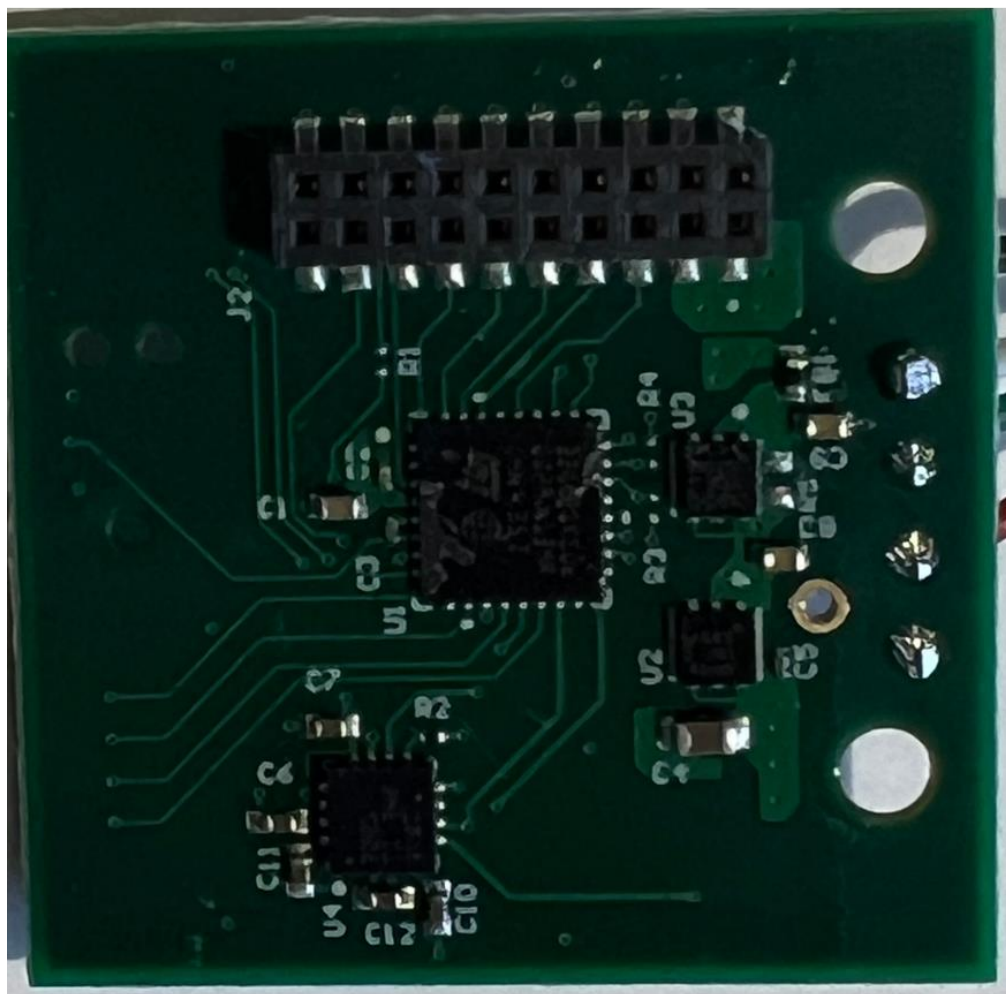
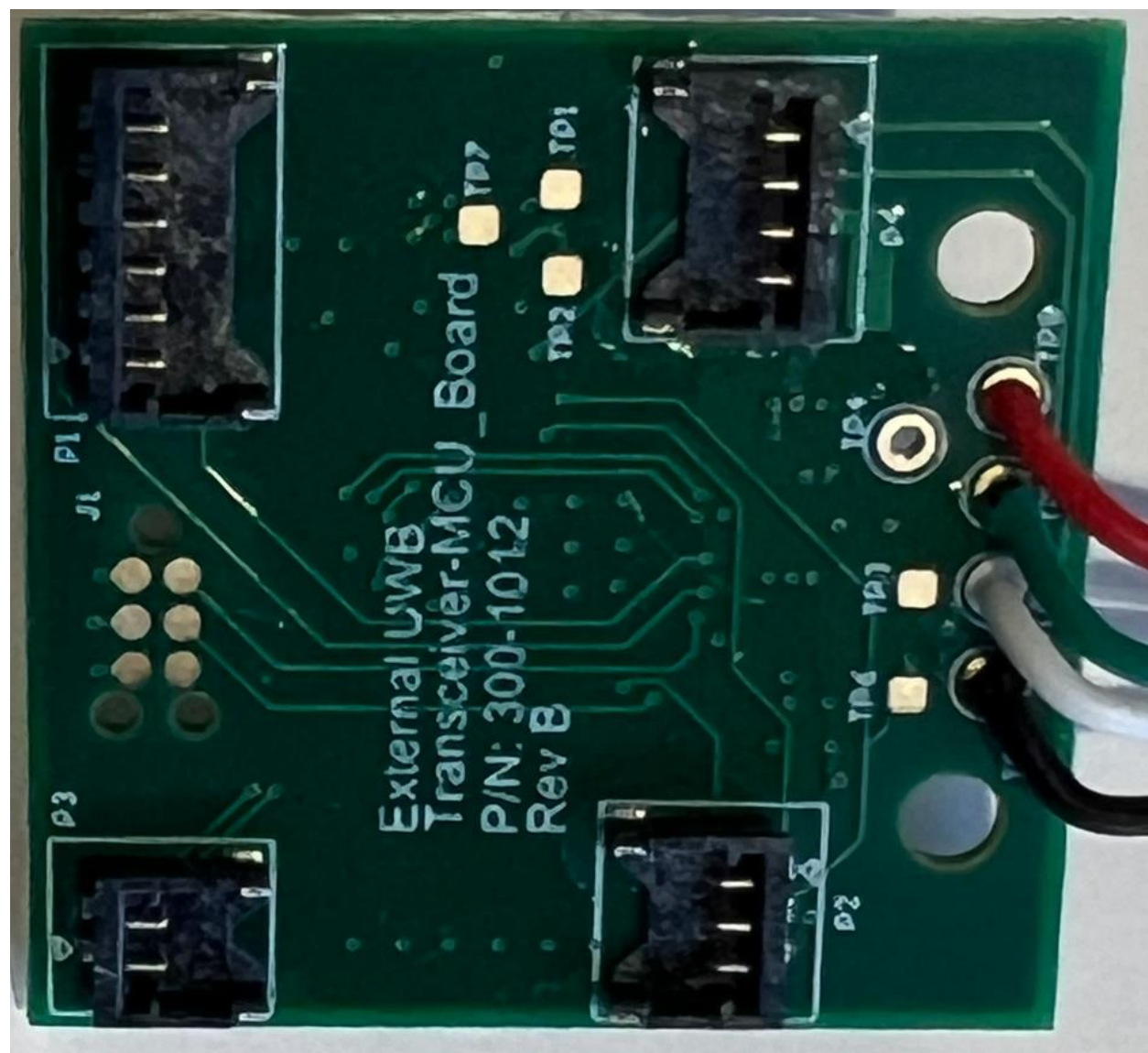


Figure 25. External UWB Transceiver Board (Bottom)

← 27mm →



↑ 27mm ↓



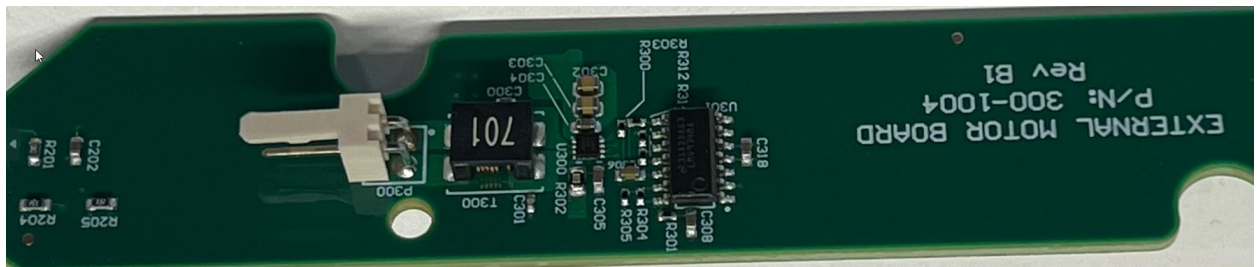
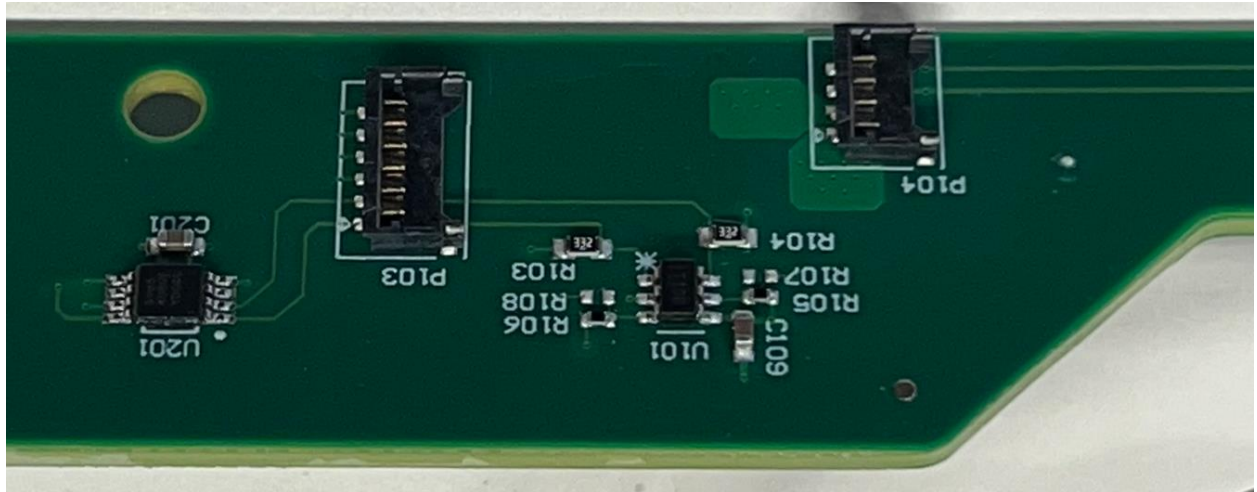
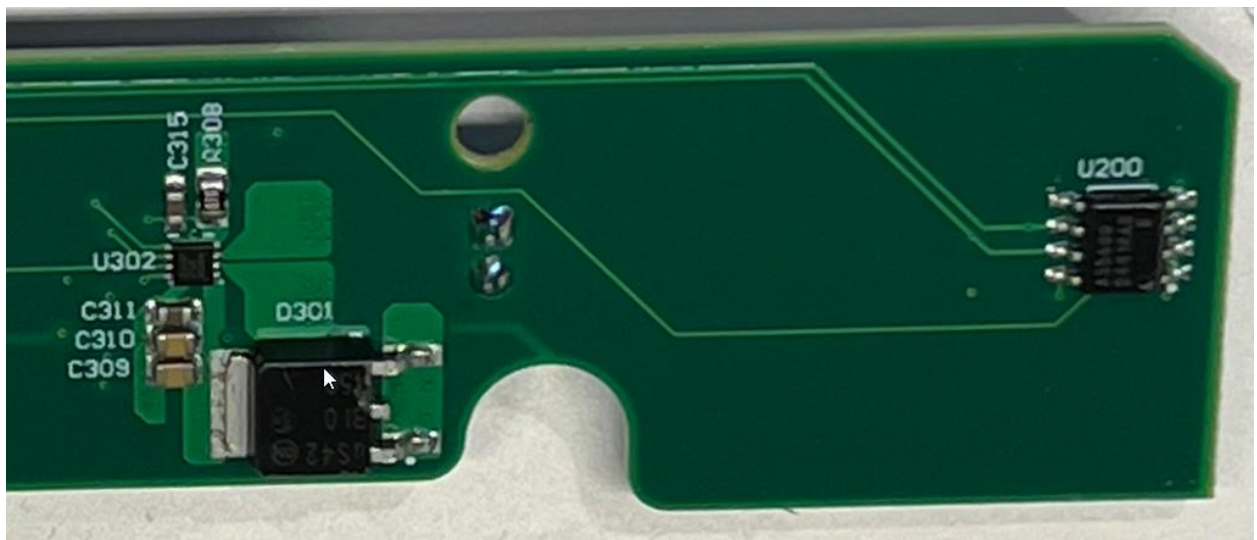


Figure 28. External Motor View Top View Zoomed In (Right to Left)



Figure 29. External Motor Board Bottom View



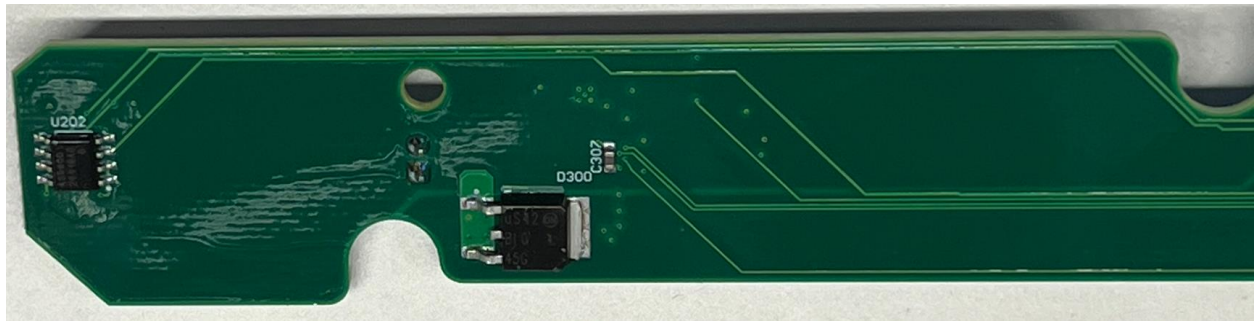


Figure 30. External Motor Board Bottom View Zoomed In (Right to Left)