

REDARC - Antenna PCB2730 Specification

Product related: DISP4300

FCC ID of the product related: 2BAH6-DISP4300

REV	Date	Description of changes
1	4/July/2025	Initial release

Contents

1.	Scope.....	4
2.	Antenna Specification	5
3.	General Specification	6

Table of Figures

Figure 1: 3D view of the Bluetooth antenna.....	6
Figure 2: Bluetooth Antenna Top Layer	7
Figure 3: Bluetooth Antenna Bottom Layer (Viewed from the top)	8

1. Scope

This document provides the antenna PCB2730 specifications for REDARC's product DISP4300, under the FCC ID 2BAH6-DISP4300.

The antenna PCB2730 is a circuit-printed inverted F-type monopole antenna over the board of the product DISP4300 designed specifically for the DISP4300 to connect to the RedVision app installed on a compatible mobile device.

This means that the antenna is not a product itself and is part of the circuit board of DISP4300.

2. Antenna Specification

Modulation	GFSK
Nominal Bandwidth	2MHz (Bluetooth Low Energy)
Antenna Model/Type	PCB2730 inverted-F type monopole (PCB circuit Printed)
Antenna Gain	1.1dBi
Frequency Band	2.4GHz ISM Band (2.402 – 2.480 GHz Utilized)
Polarization	Vertical
Input Impedance	50 ohms

3. General Specification

The DISP4300 antenna poses its F-type monopole antenna used in the device, shown in Figure 1 through Figure 3. No ground plane under and around the PCB antenna.

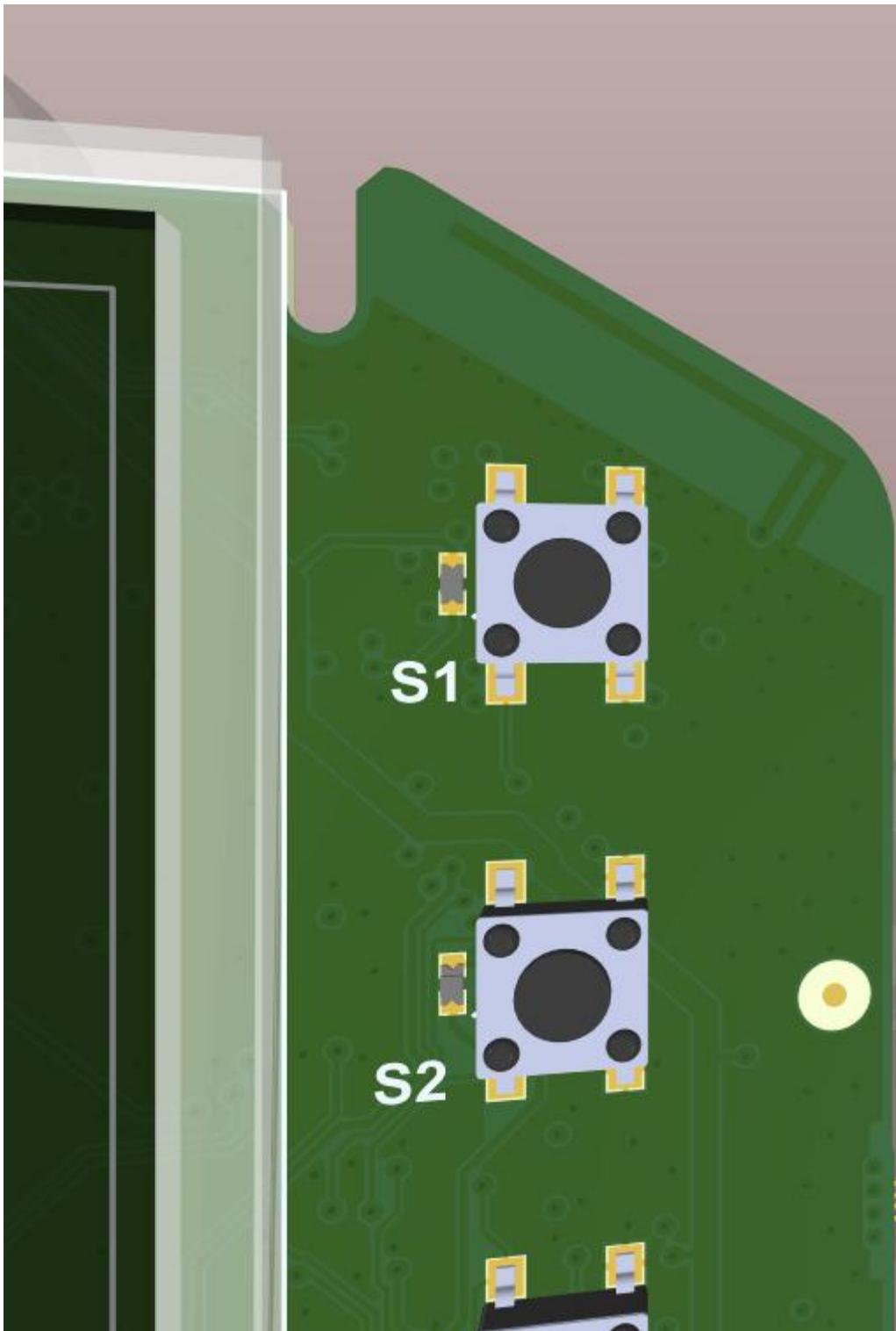


Figure 1: 3D view of the Bluetooth antenna

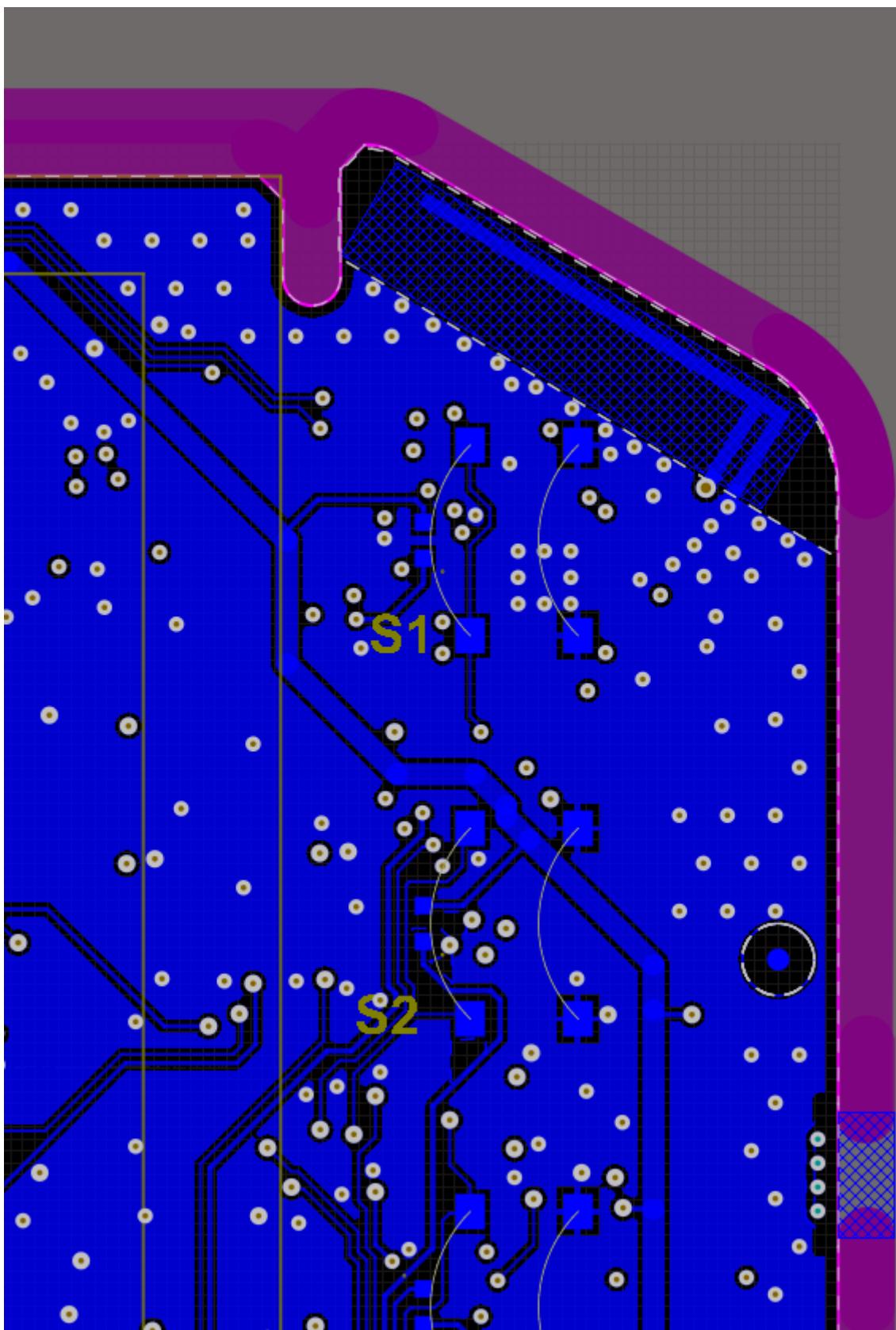


Figure 2: Bluetooth Antenna Top Layer

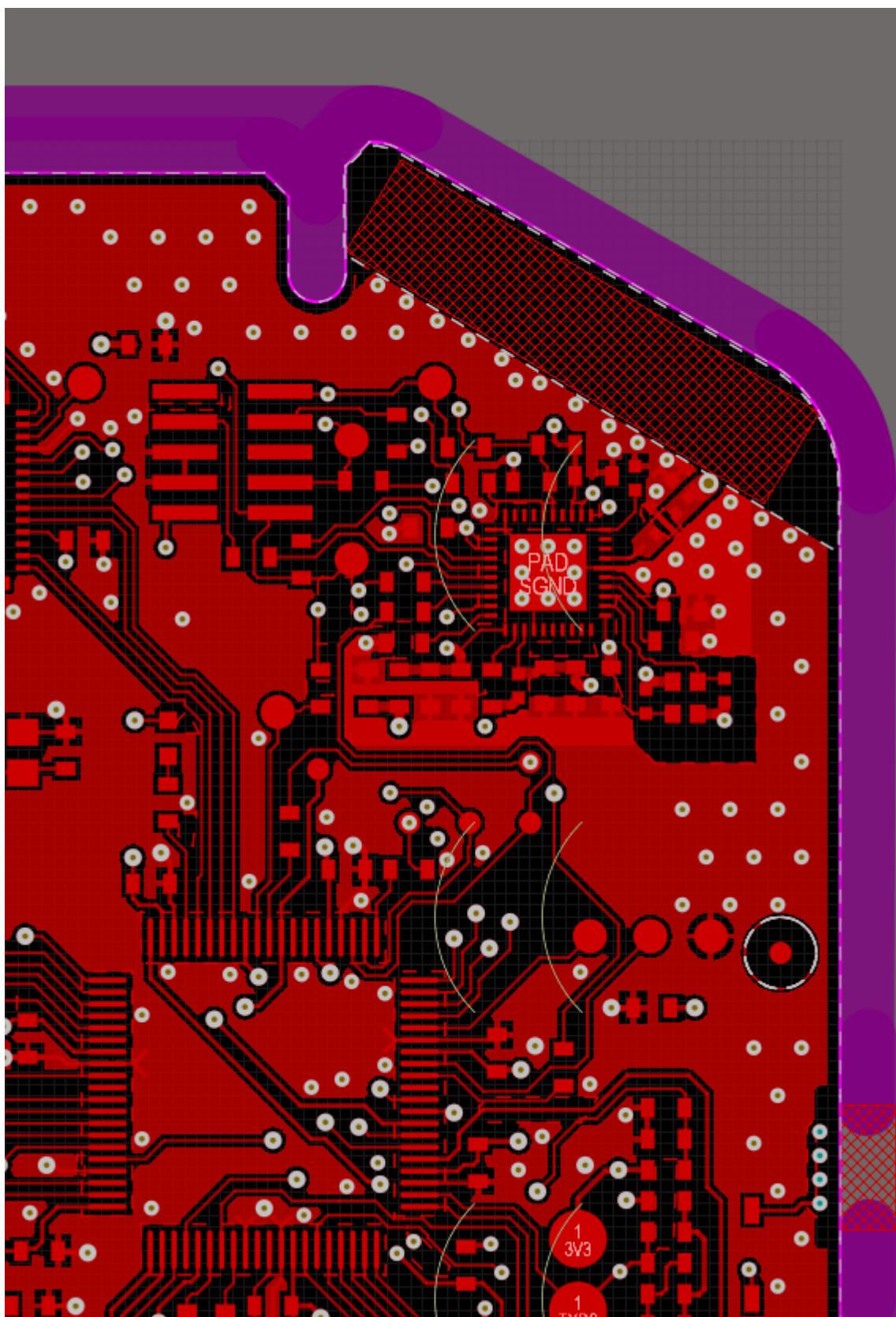


Figure 3: Bluetooth Antenna Bottom Layer (Viewed from the top)