

### FCC & ISED Antenna information

**Product: Digipass® FX2-A**

**FCC ID: 2AH88-FX2B**

**ISED ID: 27700-FX2B**

Version: I

Date: I December 2025

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## 1.1 Digipass FX2-A design

The BLE radio is Bluetooth version 5.2. The Antenna is a Meandered Inverted F Antenna (MIFA) that is designed to work in the band needed (2,4GHz - 2,5GHz). The signal is generated in the microprocessor (STM32WB55RGV6) and fed via an LPF (MLPF-WB55-01E3) and matching circuit C203(NA), R201(0Ohm) and C204(NA) to the PCB etched antenna.

## 1.2 PCB antenna information

This section provides an overview of the FX2B PCB antenna design. The PCB antenna is a Meandered Inverted F Antenna (MIFA).

The PCB layout and radiation pattern direction of a MIFA antenna is shown in Fig 1.

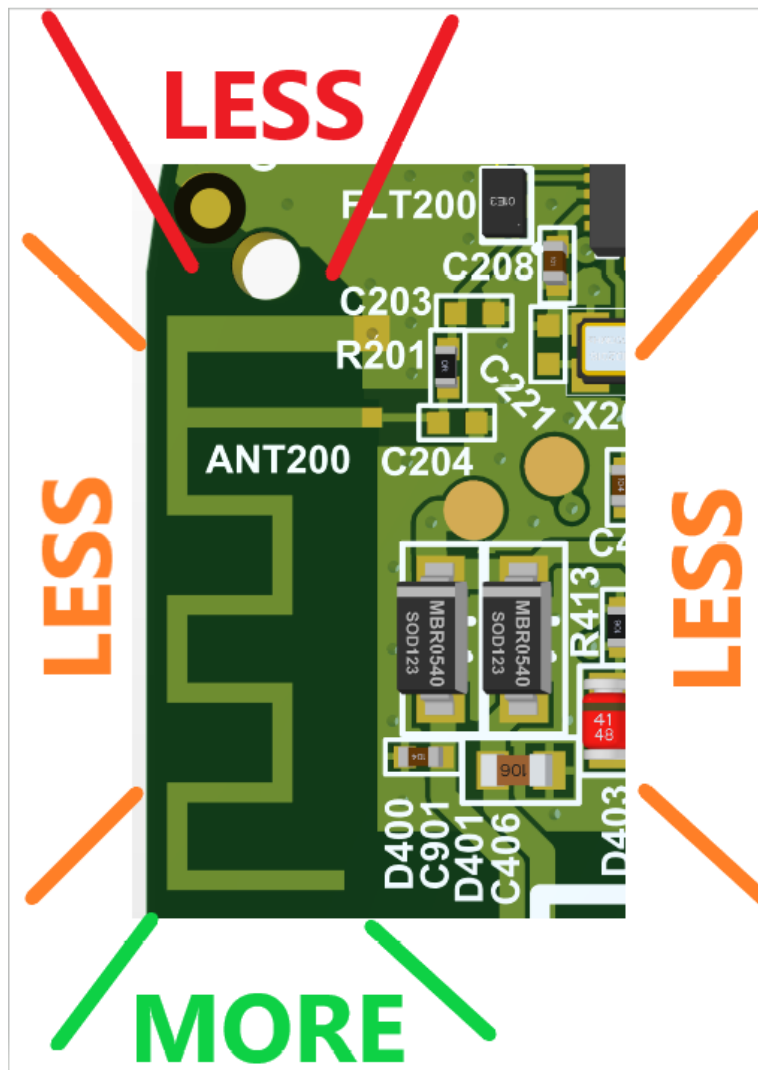
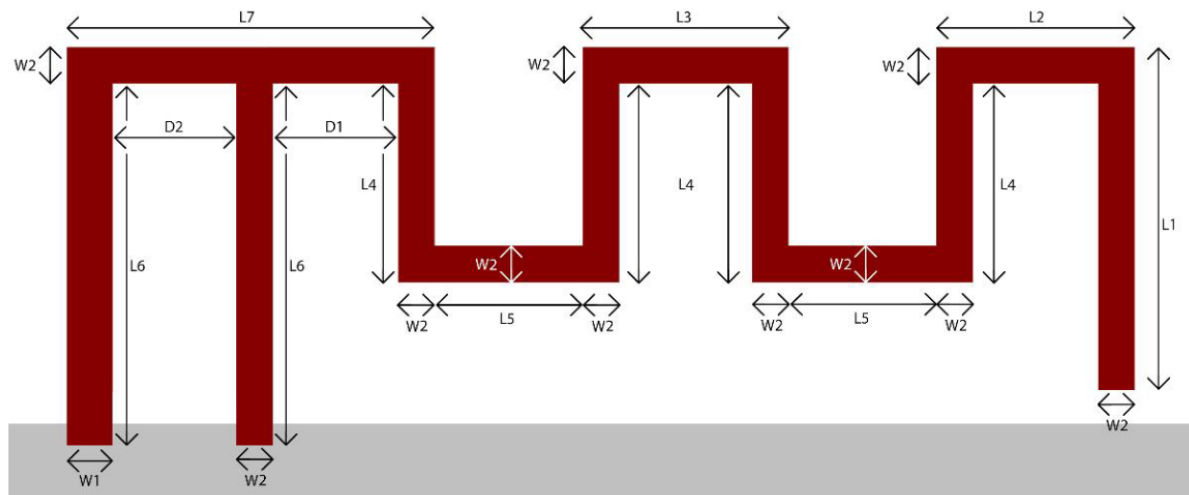


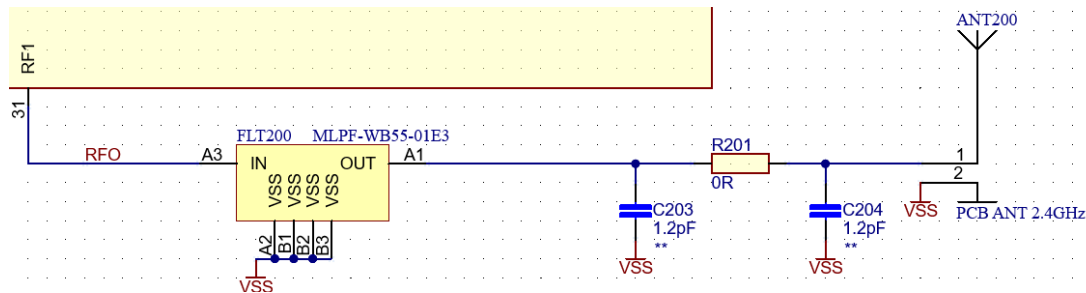
Fig 1. FX2 MIFA antenna radiation direction



|    |        |
|----|--------|
| L1 | 4.44mm |
| L2 | 2.70mm |
| L3 | 2.70mm |
| L4 | 2.64mm |
| L5 | 2.00mm |
| L6 | 4.90mm |
| W1 | 0.90mm |
| W2 | 0.50mm |
| D1 | 1.70mm |
| D2 | 1.40mm |

## I.3 ANTENNA-MATCHING AND FILTERING SCHEMATICS

The antenna-matching and filtering is done by FLT200 (MLFP-WB55-01E3), C203(NA), R201(0Ohm) and C204(NA).



## I.4 ANTENNA GAIN

The antenna gain is approx. 1.5dBi +/- 0.35