

Antenna Specification

1. General Information

- Product Name: _____
- FCC ID: _____
- Model Number: _____

2. Antenna Description

- Antenna Type: Integral PCB Trace Antenna
- Antenna Location: Printed on the main PCB
- Antenna Connection: Direct connection to RF circuit, no RF connector
- Removability: Permanently attached, not user replaceable
- External Antenna Port: None

3. Antenna Structure & Dimensions

- Antenna Implementation: Copper trace printed on PCB
- Antenna Geometry: Meandered PCB trace antenna
- Antenna Total Length: 47.3 mm
- Antenna Width: 0.8 mm
- Clearance to Ground Plane: 1.7 mm
- PCB Thickness: 1.0 mm (approx.)
- Copper Thickness: 1 oz (typical)

4. Operating Frequency

- Operating Frequency Band: 433.05 – 434.79 MHz
- Typical Operating Frequency: 433.92 MHz

5. Antenna Gain

- Maximum Antenna Gain: 2.88dBi (typical)
- Note: The antenna gain is declared based on typical performance of integral PCB trace antennas.

6. Radiation Characteristics

- Radiation Pattern: Approximately omnidirectional in free space.
- Due to the integral PCB trace antenna structure, no standalone antenna radiation pattern measurement is available.
- Compliance with FCC Part 15 requirements is demonstrated through radiated emission testing of the complete device.

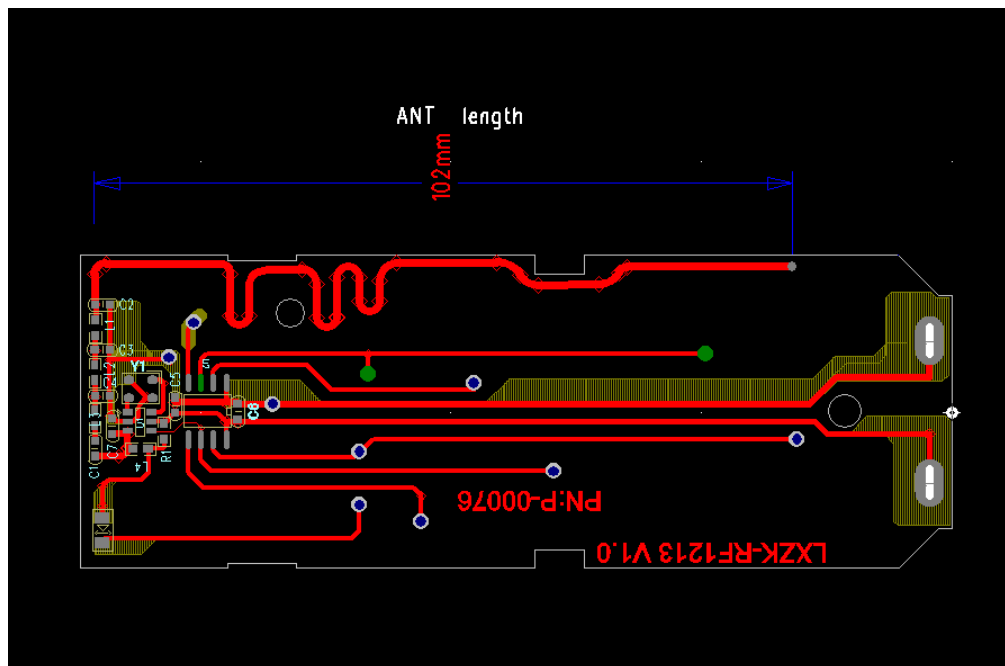
7. Compliance Statement

- The antenna is permanently attached and cannot be replaced by the user.
- No antenna connector is provided.
- The device complies with FCC Part 15C requirements using the integral PCB trace antenna as tested.

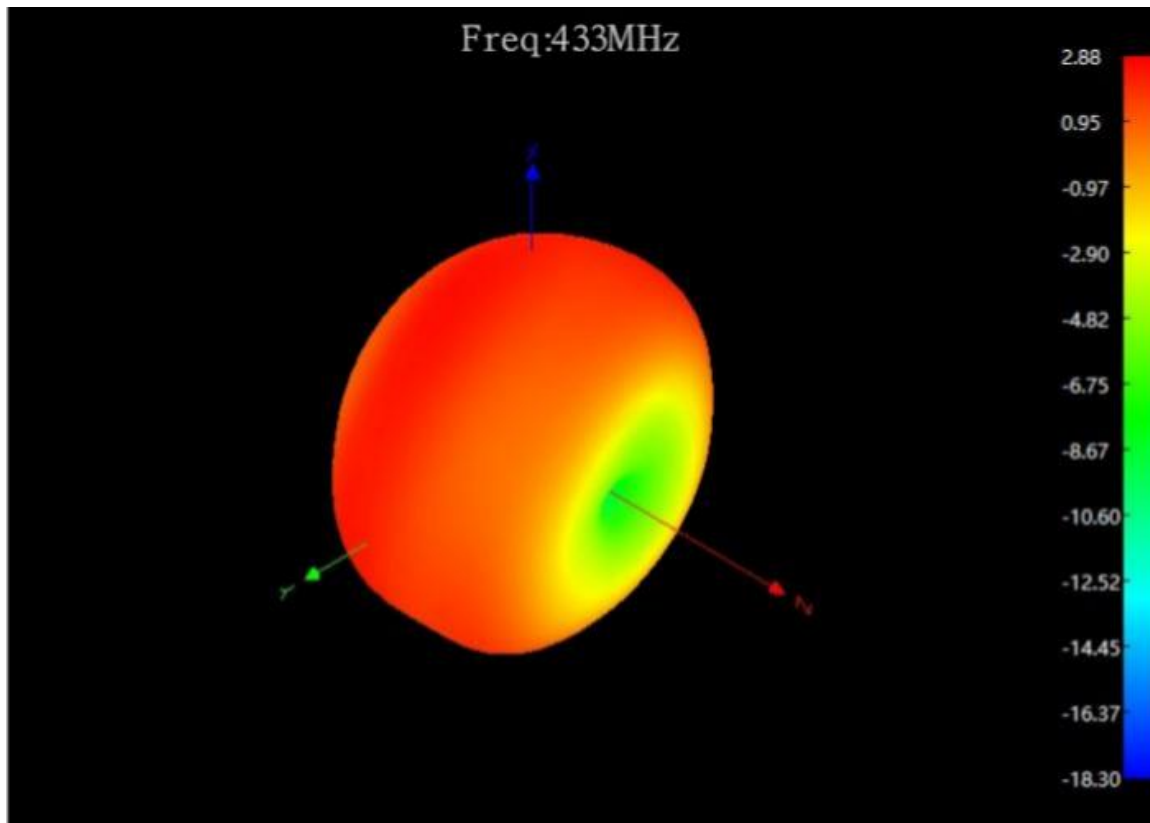
8. Supporting Documents

- PCB layout drawing showing antenna trace dimensions
- Internal photos showing antenna implementation
- FCC Part 15C radiated emission test report

Antenna structure diagram



Antenna Gain 3D Plot



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