# Bluetooth antenna of PCB on-board specification

V1.0

#### 1、Index

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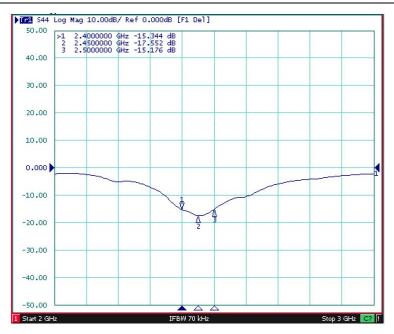
Release Date: Mar 25, 2023

Manufacturer: Tangshan Hongjia Electronic Technology Co., Ltd.

## 2. Specification

| A. Electrical Characteristics            |                 |  |  |
|--|-----------------|--|--|
| Frequency                                | 2400 ~ 2500 MHz |  |  |
| S.W.R.                                   | <=2.0           |  |  |
| Gain                                     | 2.02 dBi        |  |  |
| Efficiency                               | ~ 50%           |  |  |
| Polarization                             | Linear          |  |  |
| Impedance                                | 50 Ohm          |  |  |
| B. Material & Mechanical Characteristics |                 |  |  |
| Material of Radiator                     | plated copper   |  |  |
| C. Environmental                         |                 |  |  |
| Operation Temperature                    | - 40℃ ~ + 85℃   |  |  |
| Storage Temperature                      | - 40℃ ~ + 105℃  |  |  |

## 3. Return Loss



### 4、Radiation Pattern

Radiation Pattern and Gain were dependent on measurement board design. The specification of coil antenna was measur ed based on the PCB size and installation position as shown in the below figure Test Board.

