

# **D10 Antenna Specification**

## **D10 Antenna Series**

**Compliant with RoHS Directive**

**PN: D10-ANT-V1.0**

Shenzhen Lonsdor Technology Co., Ltd.  
No.201-203,Block B3,Fuhai B3 Industrial Zone,Fuhai Ave,FuyongSt.,Bao'an,Shenzhen,Guangdong  
Province, China

## **2400-2483.5MHz Band Antenna**

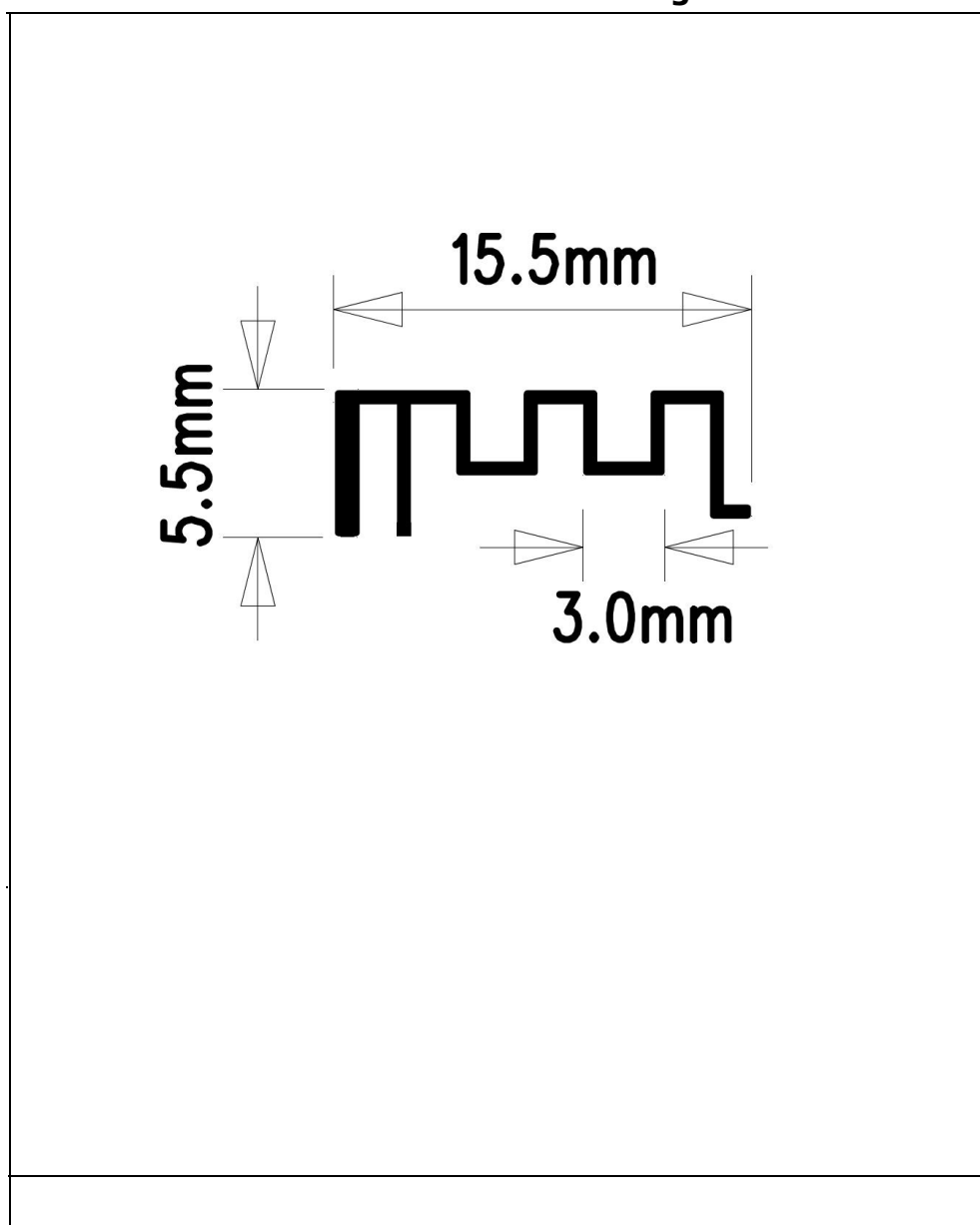
Shenzhen Lonsdor Technology Co.,Ltd.  
No.201-203,Block B3,Fuhai B3 Industrial Zone,Fuhai Ave,FuyongSt.,Bao'an,Shenzhen,Guangdong  
Province, China

**Features**

1. Compact D10 board-mounted antenna with ultra-small dimensions of only 15.5×5.5×1.2 mm.
2. Low energy loss, and high antenna efficiency.
3. High stability under varying temperature and humidity conditions.

**Applications**

1. Apply to 2400-2483.5 MHz band.
2. TPMS programmers.

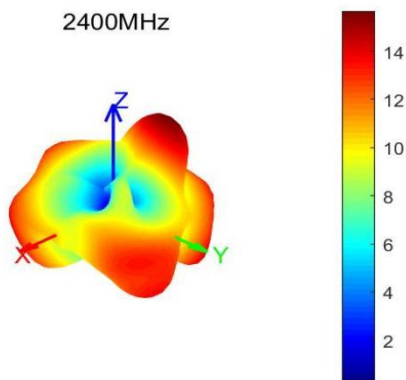
**Antenna Structure and Dimensions Diagram**

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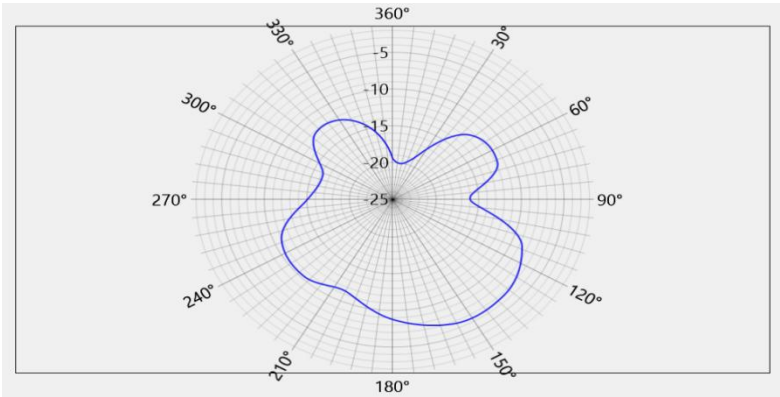
**Electrical characteristics**

|                      |                                       |         |         |          |         |         |
|----------------------|---------------------------------------|---------|---------|----------|---------|---------|
| TTEM                 | ANT SPEC                              |         |         |          |         |         |
| Model Name           | 2.4G ANT                              |         |         |          |         |         |
| Center Frequency     | Horizontal                            |         |         | Vertical |         |         |
|                      | 2400MHz                               | 2440MHz | 2480MHz | 2400MHz  | 2440MHz | 2480MHz |
|                      | -6.65                                 | -1.95   | -0.20   | -6.34    | -2.33   | -0.80   |
| MAX. Gain            | -0.20dBi                              |         |         |          |         |         |
| Polarization         | Horizontal and Vertical               |         |         |          |         |         |
| Azimuth Beam Pattern | Omni-directional                      |         |         |          |         |         |
| Impedance            | 50 Ohm                                |         |         |          |         |         |
| Antenna Length       | 15.5 mm                               |         |         |          |         |         |
| Manufacturer         | Shenzhen Lonsdor Technology Co., Ltd. |         |         |          |         |         |

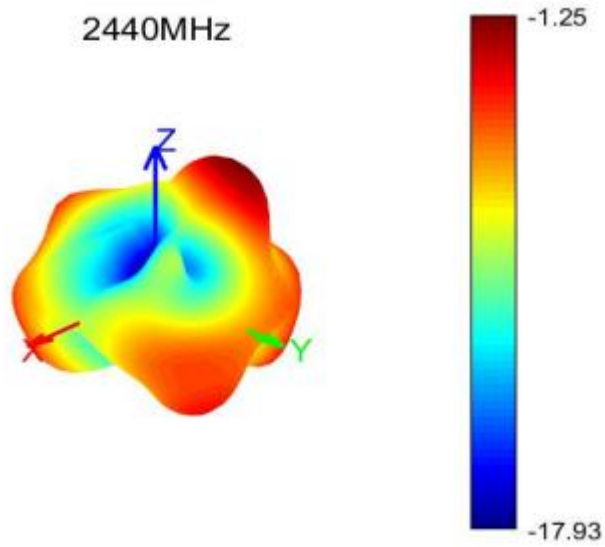
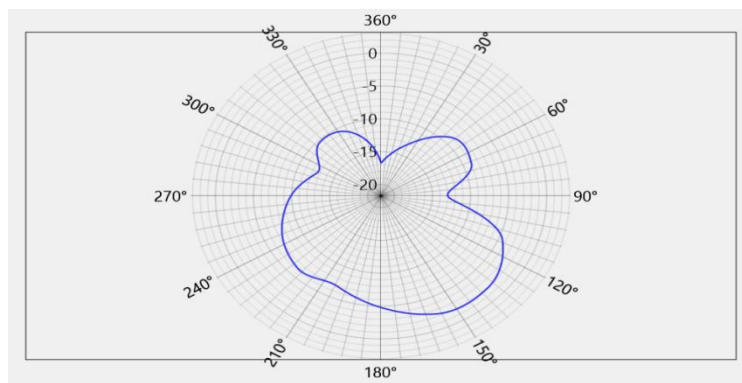
3D Plot



2D Curve Plot

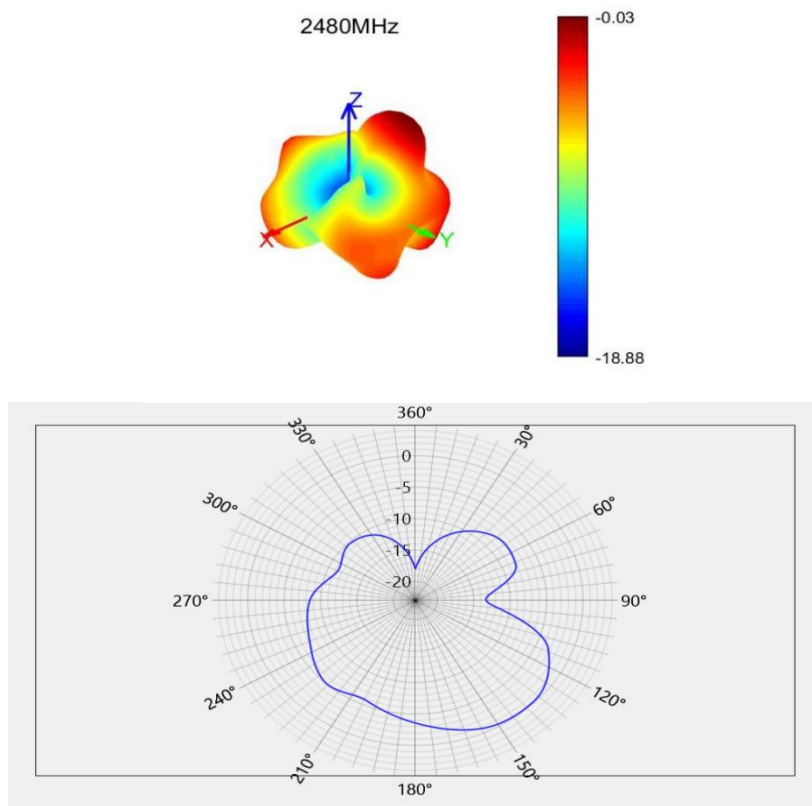


| Frequency<br>[dB/Hz] | Gain (dB) |        |        |
|----------------------|-----------|--------|--------|
|                      | Max       | Min    | Avg    |
| 2400                 | -6.65     | -19.54 | -11.23 |

**3D Plot****2D Curve Plot**

| Frequency<br>[dB/Hz] | Gain (dB) |        |       |
|----------------------|-----------|--------|-------|
|                      | Max       | Min    | Avg   |
| 2440                 | -1.95     | -16.76 | -7.20 |

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**3D Plot**

| Frequency<br>[dB/Hz] | Gain (dB) |        |       |
|----------------------|-----------|--------|-------|
|                      | Max       | Min    | Avg   |
| 2480                 | -0.20     | -18.03 | -6.02 |