

## Product specification

### Quick Reference Data

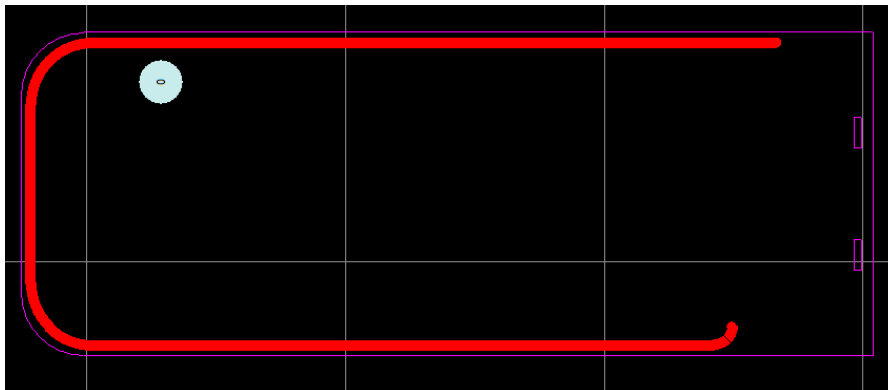
|                            |                                    |  |
|----------------------------|------------------------------------|--|
|                            | Antenna module on the system board |  |
| Frequenc Range             | 433.92MHz                          |  |
| Ant. Port Input Pwr. (dBm) | 0 (Typ. BT class 2 output power)   |  |
| Tot. Rad. Pwr. (dBm)       | -1.2 (Input pwr – loss pwr)        |  |
| Peak EIRP(dBm)             | 1.2                                |  |
| Directivity (dBi)          | 1 (all direction antenna)          |  |
| Efficiency (dB)            | 60.2 %                             |  |
| Gain (dBi)                 | 0 (Avg Gain XY-plane)              |  |
| Maximum Power (dBm)        | 1.7 (XY-plane)                     |  |
| Minimum Power (dBm)        | -4(XY-plane)                       |  |
| Avg. Power (dBm)           | -0.5(XY-plane)                     |  |
| Input Impendence(ohm)      | 50                                 |  |
| Polarization Type          | Vertical & Horizontal              |  |
| V. S .W. R                 | < 1.4                              |  |

All the technical data and information contained herein are subject to change without prior notice

### Antenna Layout & module on the system board

Applicant:Shenzhen Liris Lighting Co, Ltd.

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**Antenna Gain**

**Gain Table**

| Unit in dBi @433MHz | XY-plane |      | XZ-plane |      | YZ-plane |      | Efficiency |
|---------------------|----------|------|----------|------|----------|------|------------|
|                     | Peak     | Avg. | Peak     | Avg. | Peak     | Avg. |            |
| Module Board        | -1.2     | -0.5 | 0        | -3.6 | -1.1     | -3.0 | 60.2 %     |

We, Shenzhen Liris Lighting Co, Ltd., states that All measurements were performed radiated and therefore additional antenna gain documentation is not required.