

## RWS-434LL 433.92MHz RF OOK RECEIVER MODULE

WENSHING Electronics released the [RWS-434LL](#) series OOK ISM band wireless communication high-sensitivity receiving module in November 2022, with a sensitivity of up to -117dBm and a wide voltage range of 2~5.5V, which is used for long-distance remote control reception. The module complies with high power NCC, FCC, CE regulations.



### ➤ Application

- *Remote control iron rolling door*
- *Anti-theft device*
- *Lamp*
- *Remote control crane*
- *Remote lock*
- *Wireless reception*

### ➤ Features

- *High sensitivity -117dBm*
- *Received signal strength output RSSI*
- *Wide working voltage 2.0~5.5V*
- *43.5\*10.03\*4.5mm*

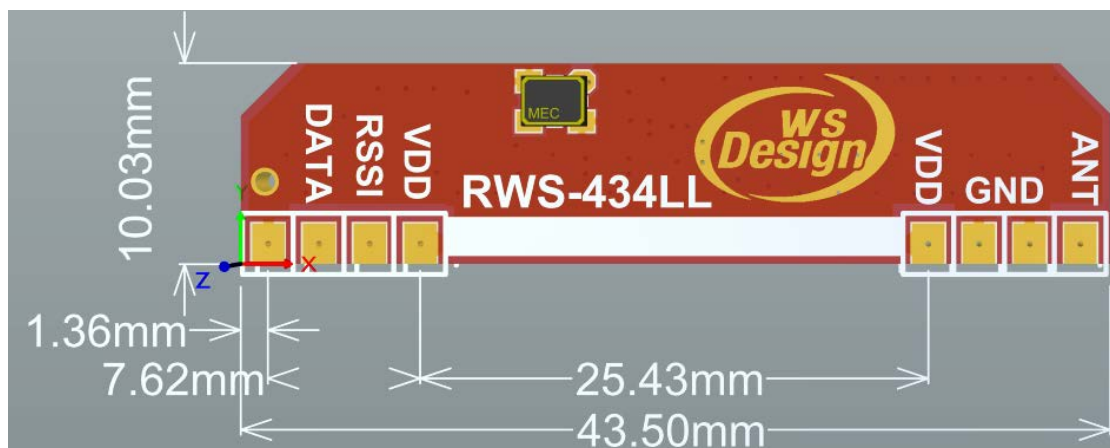
### Version History

| Version | Date          | Changes                   |
|---------|---------------|---------------------------|
| V1.01   | Nov. 10. 2022 | 1 <sup>st</sup> . Edition |

➤ Model : [RWS-434LL-6](#)

| Parameter             | Specification |      |        | Unit | Condition              |
|-----------------------|---------------|------|--------|------|------------------------|
|                       | Min.          | Typ. | Max.   |      |                        |
| Frequency Range       | 434.03        |      | 433.07 | MHz  |                        |
| Receiver Sensitivity  |               | -117 |        | dBm  | 2500 bps               |
| Data Rate             | 20            |      | 2500   | bps  | Speed1                 |
|                       | 20            |      | 7500   | bps  | Speed2                 |
| Supply Voltage, VDD   | 2.0           |      | 5.5    | V    | DC                     |
| RX Current            |               | 5.6  |        | mA   | 5V                     |
| DATA up time          | 16            |      |        | ms   | Disable to Enable time |
| Operating Temperature | -20           |      | +80    | °C   |                        |

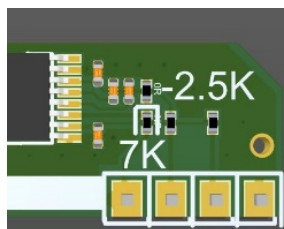
➤ Size



➤ Pin Assignment



| Pin | Name | I/O | Description   |
|-----|------|-----|---|
| 1   | GND  | IN  | Power Ground  |
| 2   | DATA | OUT | For the first time, the RF needs to transmit 16mS long time to output DATA normally. If the stop time does not exceed 100mS, it can be received normally. |
| 3   | RSSI | OUT | RSSI is a metric that evaluates the strength of the wireless signal.  |
| 4   | VDD  |     | Power Supply 2~5.5V   |
| 5   | VDD  |     | Power Supply 2~5.5V   |
| 6   | GND  | IN  | RF Ground   |
| 7   | GND  | IN  | RF Ground   |
| 8   | ANT  | IN  | Antenna   |



[1] 2.5Kbps or 7Kbps switch

➤ Demo Circuit

