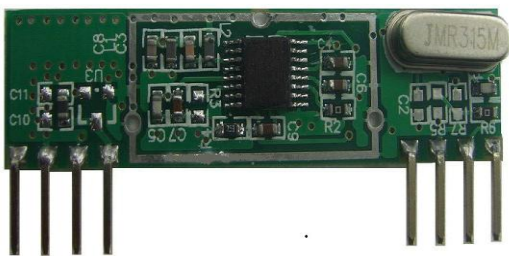


**Type: ASK/OOK Super-Heterodyne Receiver Module**  
**Model: CY07-V1.1-XXX**

### 1. DESCRIPTION:

The CY07-V1.1 is a ASK/OOK compatible super heterodyne wireless receiving module with high performance for ISM frequency band. With the adoption of European brand RF wireless data transferring/receiver chipsets, that the model has a high receiving sensitivity and strong ability of resisting. From wireless signal input to data output can be done without any electrical circuit. User only use extra simple data decode circuit can achieve wireless products development. CY07-V1.1 is for commercial level version.

Without Cover:



With Cover:



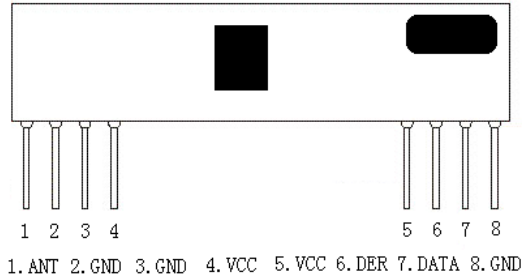
### 2. FEATURES:

- Frequency: 315MHz/433.92MHz (custom frequency is available);
- High sensitivity -110dBm@433.92 1kbps BER10E-2;
- supply voltage: VCC= 3.6to 5.5 V;
- IF band: 230KHz;
- Low power consumption: 4.8mA@315M, 6mA@433.92M.
- Excellent selectivity and noise rejection;

### 3. APPLICATION:

- Remote gate controls
- Remote keyless entry
- Car alarm systems
- wireless security systems
- Automation systems

**4. PIN DEFINITION:**



**Figure1 CY07-V1.1Shape & Pins**

| Pin Name    | Pin Definition   |
|-------------|--|
| <b>ANT</b>  | Antenna In   |
| <b>GND</b>  | Connect to negative power supply   |
| <b>GND</b>  | Connect to negative power supply   |
| <b>VCC</b>  | Connect to positive power supply   |
| <b>VCC</b>  | Connect to positive power supply   |
| <b>DER</b>  | Optional output:<br>1, DATA output(default setting)<br>2, Battery Saving Mode<br>(Working mode in low level input)<br>(Sleeping mode in high level input ) |
| <b>DATA</b> | Data Output  |
| <b>GND</b>  | Connect to negative power supply   |

**Note1:** ANT pin is a 50 ohm antenna input. The length is about:

23cm for 315MHz

17cm for 433.92MHz



## 5. ELECTRICAL CHARACTERISTICS:

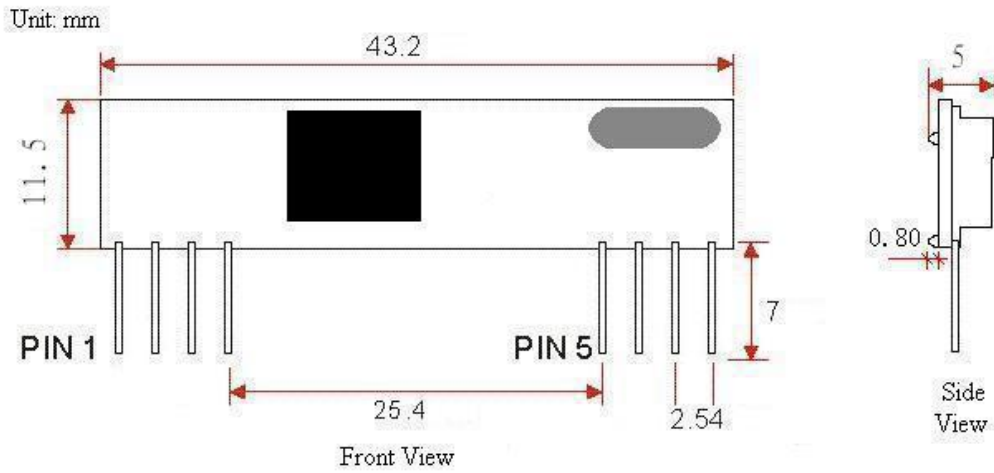
Condition: Ta=25°C Vcc=5.0V Frequency=315MHz

| Parameter             | Specification |      |        | Unit | Condition        |
|-----------------------|---------------|------|--------|------|------------------|
|                       | Min           | Typ  | Max    |      |                  |
| Frequency Range       | 314.90        | 315  | 315.10 | MHz  | Others available |
| Receiver Sensitivity  |               | -110 |        | dBm  | BER=10E-2        |
| Data Rate             | 0.58          | 1.2  | 4.8    | Kbps | Manchester code  |
| Supply Voltage, VDD   | 3.6           | 5    | 5.5    | V    | DC               |
| Current               | 4.8           |      | 6.2    | mA   |                  |
| Operating Temperature | -20           |      | +70    | °C   |                  |

Condition: Ta=25°C Vcc=5.0V Frequency=433.92MHz

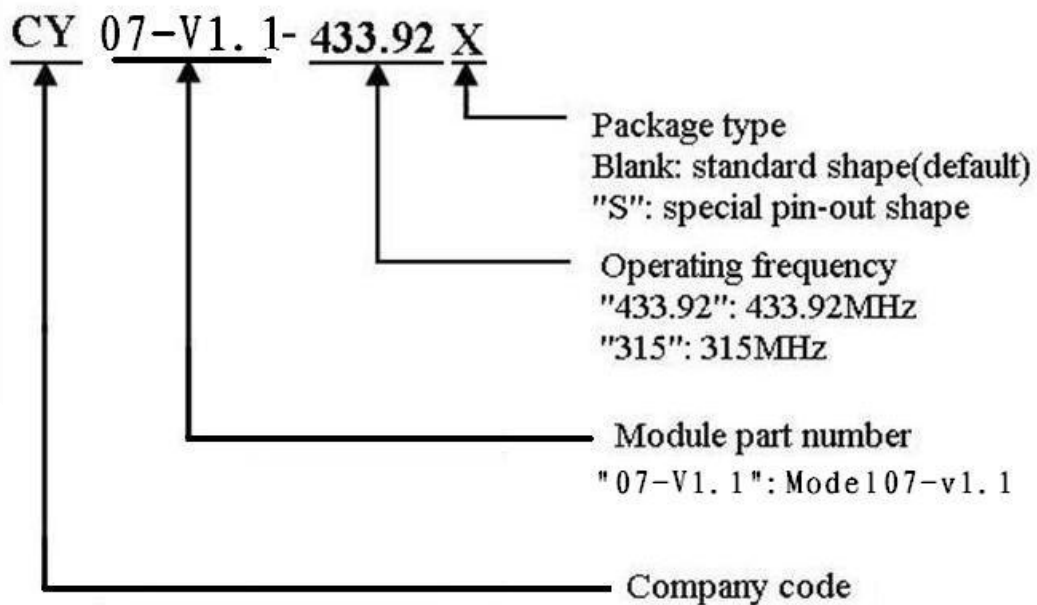
| Parameter             | Specification |        |        | Unit  | Condition        |
|-----------------------|---------------|--------|--------|-------|------------------|
|                       | Min           | Typ    | Max    |       |                  |
| Frequency Range       | 433.82        | 433.92 | 434.02 | MHz   | Others available |
| Receiver Sensitivity  |               | -110   |        | dBm   | BER=10E-2        |
| Data Rate             | 0.58          | 1.2    | 4.8    | KBaud | Manchester code  |
| Supply Voltage, VDD   | 3.6           | 5      | 5.5    | V     | DC               |
| Current               | 4.8           |        | 6.2    | mA    |                  |
| Operating Temperature | -20           |        | +70    | °C    |                  |

**6. MECHANICAL SIZE: (UNIT: mm)**



**Figure2 CY07-V1.1 Dimension**

**7. ORDER INFORMATION:**





For more information and assistance, please contact us as follows:

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