# DRA887RX
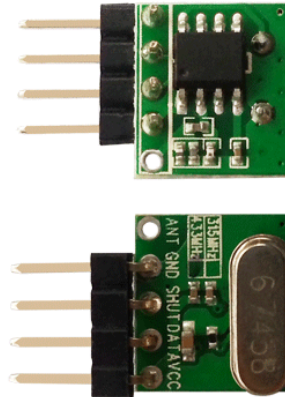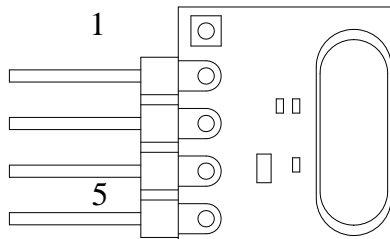## HIGH SENSITIVE ASK RECEIVER MODULE                      V1.01

### DESCRIPTION

DRA887RX is a type of high sensitive ASK receiver module which is based on RFIC. It features high stability and strong anti-interference ability. It can be used together with ASK transmitter modules in wireless door opener, robot control, security alarm and related applications.

### PIN FUNCTIONS

| PIN | Name | Description |
|---|---|---|
| 1 | ANT | Antenna port (50Ohm) |
| 2 | GND | Ground(0V) |
| 3 | SHUT | Sleep pin, High effective |
| 4 | DATA | Data output |
| 5 | VCC | Power pin |

Table 1: DRA887RX Pin Functions

### ELECTRICAL SPECIFICATIONS

| Symbol | Parameter (condition) | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|
| VCC | Supply Voltage | 3.6 | 5.0 | 5.5 | V |
| Freq | Frequency range | | 433.92 | | MHz |
| BW | Receive bandwidth | | 300 | | KHz |
| Sen. | Sensitivity @ 1k bps | | -108 | | dBm |
| $DR_{ASK}$ | ASK data rate | 0.3 | 5 | 9.6 | kbps |
| Temp | Operating temperature range | -20 | 25 | 70 | °C |
| $I_{DD\_T}$ | Current in receive mode | | 5 | | mA |
| $I_{DD\_S}$ | Current in sleep mode | | 3 | | uA |
| $Z_{ANT}$ | Antenna Impedance | | 50 | | Ohm |

Table 2: DRA887RX Electrical Specifications
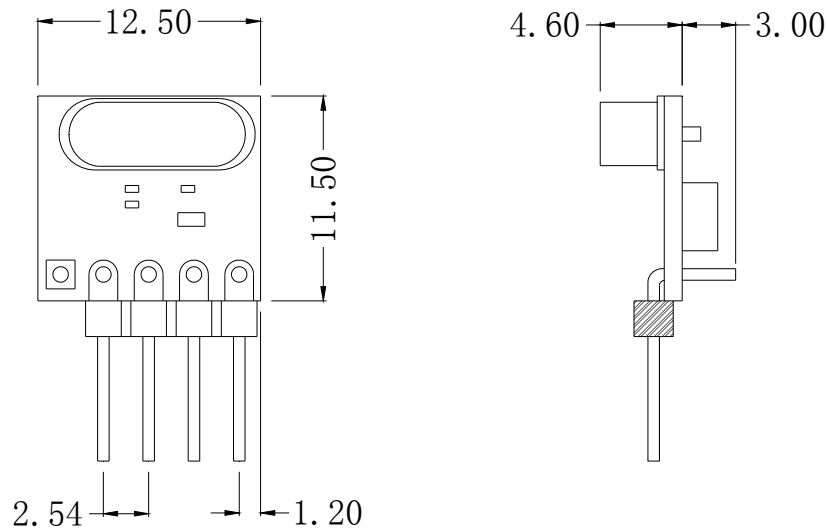
## MECHANICAL DATA

Unit (mm)



**Figure 1:    DRA887RX Mechanical Dimension**

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