



**Type: ASK/OOK Super-Heterodyne Receiver Module**  
**Model: RXB18-XXX**

### **1. DESCRIPTION:**

RXB18 is an ASK/OOK receiver super-heterodyne module, which is designed specifically for unlicensed remote-control and wireless security receiver operating at 315/433.92MHz under FCC Part 15 regulation or pass ETSI certification. The RXB18 is based on a single-conversion, super-heterodyne receiver architecture and incorporates an entire Phase-Locked Loop (PLL) for precise local oscillator generation. It can be used in OOK/ HCS/ PWM modulation signal and demodulate to digital signal.

RXB18 is a high performance module at a competitive cost and easily to design for your product. The RXB18 module can be also a RoHS compliance product.



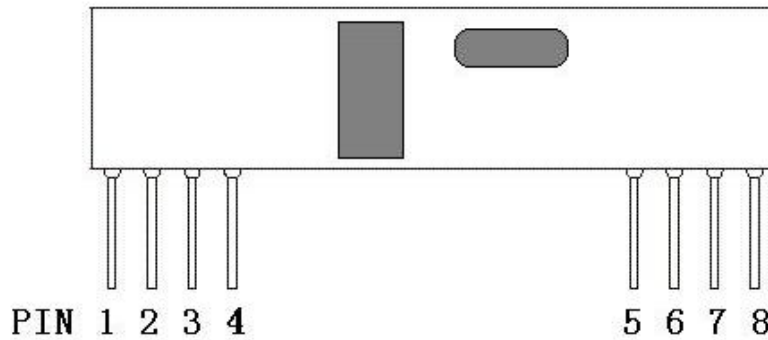
### **2. FEATURES:**

- Frequency: 315M/433.92MHz (custom frequency is available)
- Low cost ASK/OOK radio superhet receiver
- High frequency stability (no adjust components) & coherence
- Very low RF re-radiation at the antenna
- Operation temperature: -20°C ~70°C ( It can custom to -40~85°C upon requests)
- Supply voltage: 3.6~5.5V
- Available frequency: 315/433.92MHz (other Frequency customer selectable)
- Compatible with most (ASK/OOK) transmitters



### 3. APPLICATION:

- Smart home system
- Remote controls
- Remote fan and light control
- Garage door and gate openers
- Alarm and security system

**4. PIN DEFINITION:**


1. ANT 2. GND 3. GND 4. VCC 5. VCC 6. DO 7. DO 8. GND

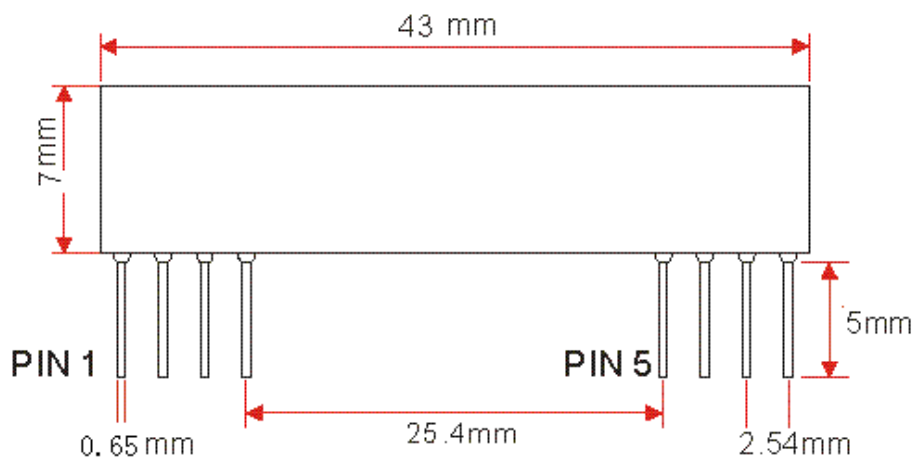
**Figure1 RXB38 Shape & Pins**

<b>Pin Name</b>	<b>Pin Definition</b>
<b>ANT</b>	RF signal input pin, connect antenna outside( <b>Note1</b> )
<b>GND</b>	Connect to negative power supply
<b>GND</b>	Connect to negative power supply
<b>VDD</b>	Connect to positive power supply
<b>VDD</b>	Connect to positive power supply
<b>DATA</b>	Data output pin, connect to MCU or decoder's input pin
<b>DATA</b>	Data output pin, connect to MCU or decoder's input pin
<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**

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency range		315/433.92		MHz	
Receiver sensitivity		-110		dBm	
Data rata	0.58	1.2	2.4	Kbaud	
Supply voltage, VDD	3.6		5.5	V	DC
Current	4.8		7	mA	
Operation temperature	-20		+70	°C	

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

**Figure2 RXB18 Dimension**