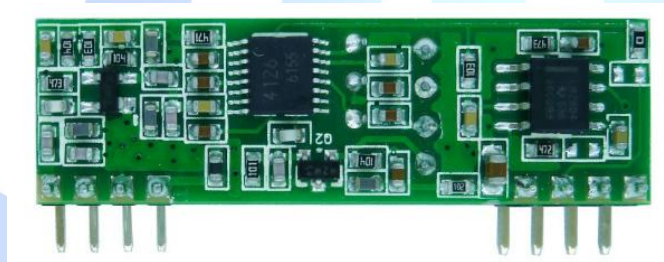


**Type: ASK/OOK Super-Heterodyne Receiver Module****Model: CY09R-XXX****1. Description:**

CY09R is a superior performance receiver module for ISM band. With the adoption of UHF technology of wireless communication, low noise large scale integrated circuit. It has cost effective, perfect ability of ESD and high reliability. Its superior performance makes rolling codec remote control and electric door-controller adopt this module. This module is widely applied in Remote control garage door, Retractable door, Barrier and so on. Used for the GSM / GPS car system supporting, Industrial control, communications and security fields, Used in complex systems environment requires by this receiving system is good choice. It can do wireless signal input to the data signal output without any external circuit. Users only need to decode the data plus a simple circuit and then any wireless products development can be easily achieved.

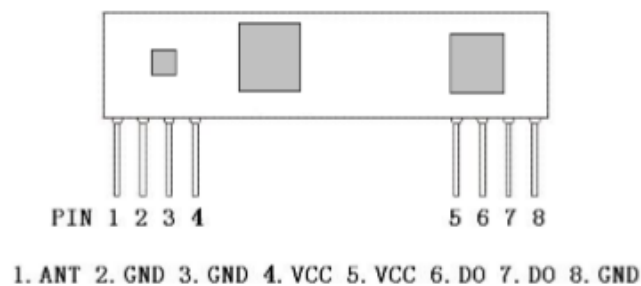
**2. Features:**

- Compact hybrid modules
- Single conversion AM superhet receiver
- 10.7 MHz high rejection IF filter
- Receiving rang up to 300 meters
- CMOS/TTL compatible output
- Single supply voltage 5V
- Higher receiver sensitivity down to -114dBm
- LO based on the SAW
- Excellent ability of noise immunity against interfering source
- A high degree of suppress assemble or scatter radiation
- Can easy pass all kinds of certification
- RSSI output

3. Application

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

4. Pin Description



Pin	Pin Name	Pin Definition
1	ANT	RF input
2	GND	RF GND
3	GND	RF GND
4	VCC	Power Supply V+
5	VCC	Power Supply V+
6	RSSI	RSSI Output
7	DO	Digital DATA
8	GND	Power Supply GND

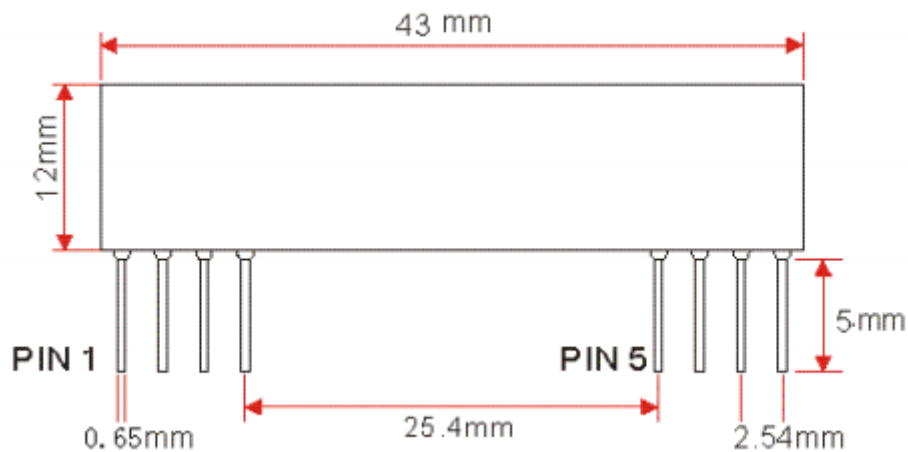
Note 1: ANT pin is a 50 ohm antenna input. The length is about:
23cm for 315MHz
17cm for 433.92MHz

5. Electrical Characteristics:

Condition: Ta=25°C Vcc=5.0V Frequency=315MHz/433.92MHz

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Carrier Frequency	314.90	315/433.9 2	434.02	MHz	
Modulation	ASK/OOK				
Receiver Sensitivity		-114		dBm	50 ohm antenna 10-3BER,1kbps
Image Rejection		20		dB	
Power Consumption			12	mA	
Receive Bandwidth		200		kHz	
Start-Up Time			10	ms	
Highest vol. as decoding	2.8	3.75	5	V	
Lowest vol. as decoding			0.5	V	
Supply Voltage	3.6		5.5	V	
Operating Temperature	-30		85	°C	

6. Mechanical Size: (Unit: MM)



CY09R Dimension

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

CY WIRELESS TECHNOLOGY LIMITED



CY09R

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