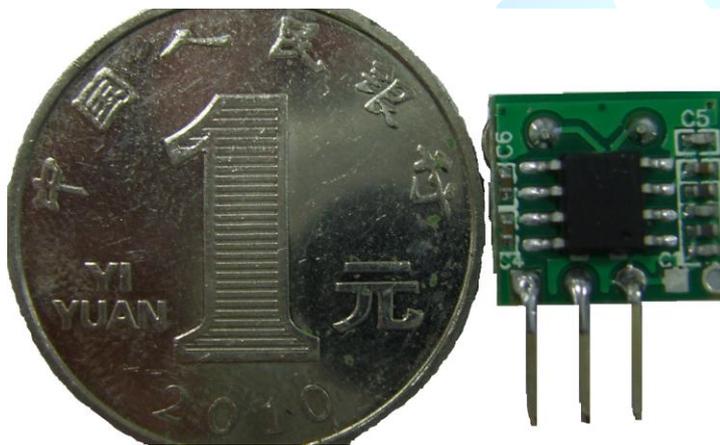


Type: ASK/OOK Super-Heterodyne Receiver Module
Model: CY49-XXX

1. DESCRIPTION:

CY49 is a super heterodyne wireless receiving module, which adopts the highly integrated RF wireless data transmission receiving chip. The CY49 is a high performance module at a competitive pricing and small in size. This module improves the stability and reliability of low-end wireless products, improves the image of the product quality and enhances the product competitiveness. It makes some low-end products can get rid of using super-regenerative module due to the limitation of price reason. It can achieve data signal input to wireless signal output without any additional circuits. Users only need to add a simple data decoding circuit and it can easily achieve the development of wireless products.



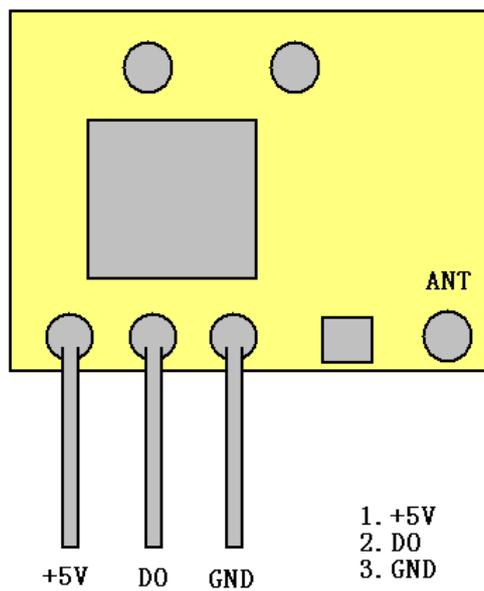
2. FEATURES:

- Frequency: 315M/433.92MHz (custom frequency is available)
- Supply voltage: 3.6~5.5v
- Receiving sensitivity to -110dBm
- Low power consumption, 5.0V @ 433.92MHz, 6.1mA; 5.0V @315MHz, 4.8mA; continuously data rate transmission to 1.2k (Manchester code)
- Good selectivity and stray radiation inhibition ability, image rejection can reach 20dB;
- Good capable of suppressing the vibration radiation. Multiple receiving modules can work at the same time (that is single transmitter and multiply receivers). There is no interference with each other it does not affect the receiving distance when multiple receivers work together.
- Operating temperature: -30°C ~+80°C. It can work normally under hostile environment.
- Dimension: 12.00×10.50×5.00 (mm)

3. APPLICATION:

- Remote gate controls, Brake
- Remote keyless entry (RKE)
- Wireless control Curtain device
- Wireless security systems
- Wireless Industrial Control
- Wireless parking lot barrier

4. PIN DEFINITION:



PIN	NAME	PIN DEFINITION
1	+5V	Positive Power Supply
2	DO	Data Output
3	GND	Ground

5. ELECTRICAL CHARACTERISTICS:

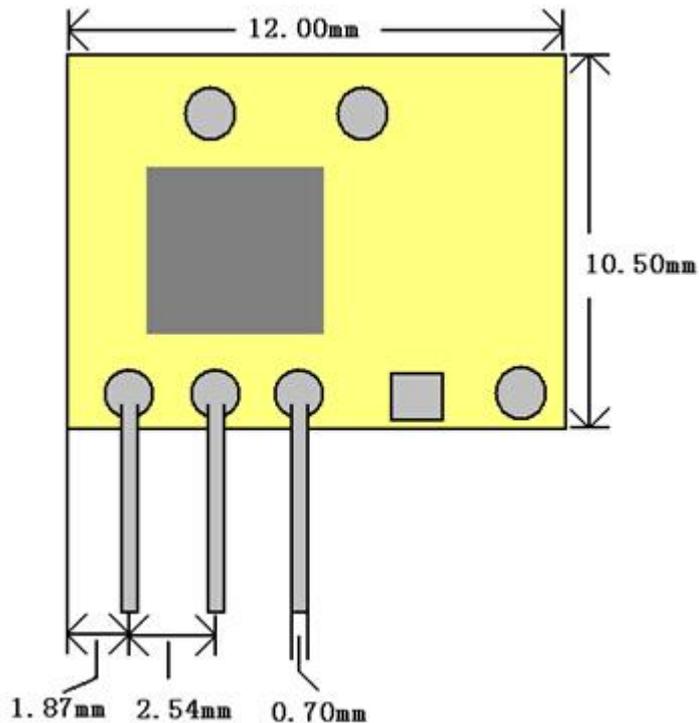
Condition: Ta=25°C Vcc=5.0V Frequency=315MHz

Parameter	Symbol	Condition	Specification			Unit
			Min.	Typical	Max.	
Frequency Range	Fc		314.90	315.00	315.10	MHz
Modulation			ASK			
Receiver Sensitivity		50 Ohm Antenna direct input/1K Kbps		-111		dBm
Receiver Bandwidth				200		KHz
Working Voltage			3.6	5.0	5.5	V
Working Current	IRC		4.6	4.8	5.1	mA
Highest Output Voltage when Decoding		RL=500K	3.5		5	V
Lowest Output Voltage when Decoding					0.5	V
Working Temperature			-30		+80	°C
Data Rate					2.4	Kbps

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

Parameter	Symbol	Condition	Specification			Unit
			Min.	Typical	Max.	
Frequency Range	Fc		433.82	433.92	434.02	MHz
Modulation			ASK			
Receiver Sensitivity		50 Ohm Antenna direct input/1K Kbps		-110		dBm
Receiver Bandwidth				200		KHz
Working Voltage			3.3	5.0	5.5	V
Working Current	IRC		5.8	6.0	6.3	mA
Highest Output Voltage when Decoding		RL=500K	3.5	5.0	5	V
Lowest Output Voltage when Decoding					0.5	V
Working Temperature			-30		+80	°C
Data Rate					2.4	Kbps

6. MECHANICAL SIZE: (UNIT: mm)



7. PRE-CAUTION:

The CY14 module data output pin drive current is weak, so if it directly to drive the single chip microcomputer, then the I/O port of MCU can't be connected with to pull-up or pull-down resistors. And please disable the pull-up and pull-down resistors inside the MCU.

8. ORDER INFORMATION:

CY49-433.92M

CY- ---Receiving Module

49-----Model Number

433.92M---Frequency in 433.92MHz;

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

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