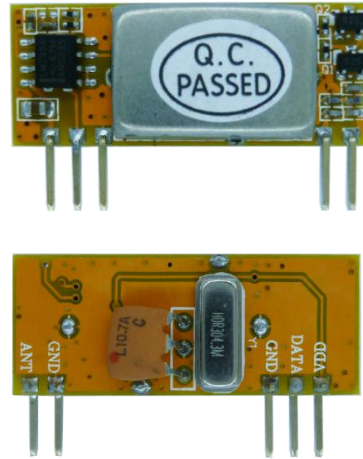

Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY23-XXX

Description:

CY23 is a high quality super-heterodyne receiver module with VHF/UHF. The module is designed based upon markets' feedback and a lot of customers' advice. It has shocked in the electronic products market. The module adopting LSI circuit with high frequency and low noise which is imported from famous company of Europe. It has strong anti-static protection, high reliability and competitive price. It's widely used in remote GDO (garage door opener), auto-gates as retract type, brakes, GSM/GPS system, factory automatic, communication and security system etc.



Order Information:

Model NO.	Frequency
CY23-315	315 MHz
CY23-433	433.92 MHz

Features:

- Frequency: 315M/433.92MHz (custom frequency is available)
- Compact hybrid modules
- Supply voltage 4.5-5.5V
- Higher receiver sensitivity down to -114dBm
- Excellent ability of noise immunity against interfering source
- Temperature Range: -30°C ~ 85°C
- Low power consumption. 5.0V/12mA, continuous data rate to 2.4Kbps (Manchester Code)

Application

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

Pin Description

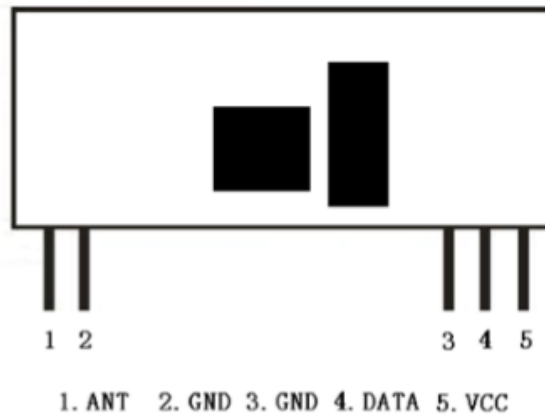


Figure1 CY23 Shape & Pins

PIN NAME	PIN DEFINITION
ANT	Antenna In
GND	Connect to negative power supply
GND	Connect to negative power supply
DATA	Data output
VCC	Connect to positive power supply

Note 1: ANT pin is a 50 ohm antenna input. The length is about:

23cm for 315MHz

17cm for 433.92MHz

**Electrical Characteristics:**

Condition: Ta=25°C Vcc=3V Frequency=315MHz

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range	314.9	315	315.1	MHz	
Modulation	ASK				
RF Sensitivity		-114		dBm	50Ohm antenna input directly/1K Kbps
Receiving Bandwidth		200		KHz	
Supply Voltage, VDD	3.6	5	5.5	V	
Current			12	mA	
Image Rejection		20		dB	293.6MHz
Decoding output max. voltage	2.8	3.75	5	V	RL=500K
Decoding output min. voltage			0.5	V	
Operating Temperature	-30		85	°C	

Condition: Ta=25°C Vcc=3.0V Frequency=433.92MHz

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range	433.82	433.92	434.02	MHz	
Modulation	ASK				
RF Sensitivity		-114		dBm	50Ohm antenna input directly/1K Kbps
Receiving Bandwidth		200		KHz	
Supply Voltage, VDD	3.6	5	5.5	V	
Current			12	mA	
Image Rejection		20		dB	293.6MHz
Decoding output max. voltage	2.8	3.75	5	V	RL=500K
Decoding output min. voltage			0.5	V	
Operating Temperature	-30		85	°C	

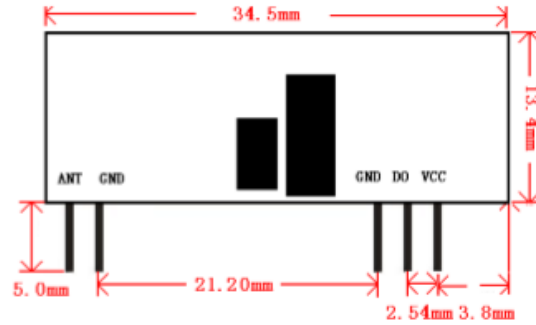
Mechanical Size: (Unit: MM)

Figure2 CY23 Dimension

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

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