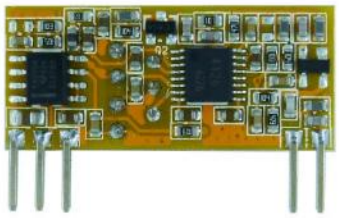
Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY11-XXX

Description:

CY11 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. Its 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
CY11-315	315 MHz
CY11-433	433.92 MHz

Features:

- Frequency: 315M/433.92 MHz(custom frequency is available)
- Compact hybrid modules
- Single conversion superhet
- 10.7MHz high rejection IF filter
- Receiving range up to 600 meters
- CMOS/TTL compatible output
- Supply voltage 4.5-5.5V
- Higher receiver sensitivity up to -114dBm
- LO is determined by the SAW
- Excellent ability of noise immunity against interfering source
- A high degree of suppress assemble or scatter radiation
- Can easily pass kinds of certification

- Temperature Range：-40℃ ~ 85℃

Application

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

Pin Description

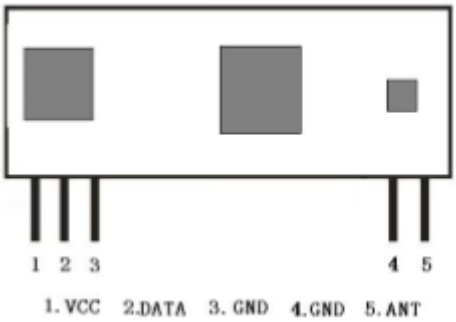


Figure1 CY11 Shape & Pins

Pin-out as showed in figure 1 above

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℃ Vcc=5.0V Frequency=315MHz

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Frequency Range	314.90	315	315.10	MHz	Other freq. available
Receiver Sensitivity		-114		dBm	
Data Rate	0.58		4.8	Kbps	Manchester code
Supply Voltage, VDD	4.5	5.0	5.5	V	DC
Current			12	mA	DC
Operating Temperature	-40		85	℃	

Condition: Ta=25℃ Vcc=5.0V Frequency=433.92MHz

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Frequency Range	433.82	433.92	434.02	MHz	Other freq. available
Receiver Sensitivity		-114		dBm	
Data Rate	0.58		4.8	Kbps	Manchester code
Supply Voltage, VDD	4.5	5.0	5.5	V	DC
Current			12	mA	DC
Operating Temperature	-40		85	℃	

Mechanical Size: (Unit: MM)

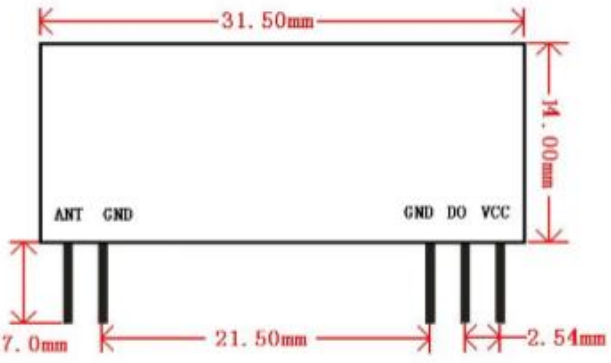


Figure2 CY11 Dimension

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

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