

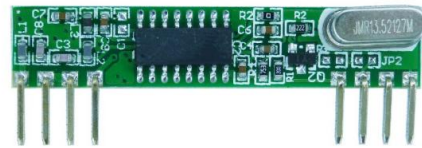


Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY02-XXX

Description:

CY02 is an ASK/OOK compatible super-heterodyne receiver, which is designed with high sensitivity, long distance, easy use for designing. The CY02 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. CY02 has a high performance at a competitive cost and is easy to design your product.



Order Information:

Model NO.	Frequency
CY02-315	315 MHz
CY02-433	433.92 MHz

Features:

- Frequency: 315M/433.92MHz (custom frequency is available);
- High sensitivity -110dBm@433.92 1kbps BER10E-2;
- Supply voltage: VCC= 3.6 to 5.5 V;
- IF band: 230KHz(integrated in chip);
- Low power consumption: 4.8mA@315M,6mA@433.92 MHz;
- Excellent selectivity and noise rejection;
- Easy for using

Application

- Remote gate controls
- Remote keyless entry
- Car alarm systems
- Wireless security systems
- Automation systems

Pin Description



Figure1 CY02 Shape & Pins

Pin-out as showed in figure 1 above

Pin Name	Pin Definition
ANT	RF signal input pin, connect antenna outside(Note1)
GND	Connect to negative power supply
GND	Connect to negative power supply
VDD	Connect to positive power supply
VDD	Connect to positive power supply
NC	No connect
DATA	Data output pin, connect to MCU or decoder's input pin
GND	Connect to negative 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=5.0V Frequency=315MHz

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Frequency Range		315		MHz	Others available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	2.4	4.8	Kbps	Manchester code
Supply Voltage, VDD	3.6		5.5	V	DC
Current		4.6		mA	
Operating Temperature	-20		+70	°C	

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

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Frequency Range		433.92		MHz	Others available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	2.4	4.8	KBaud	Manchester code
Supply Voltage, VDD	3.6		5.5	V	DC
Current		6.0		mA	
Operating Temperature	-20		+70	°C	

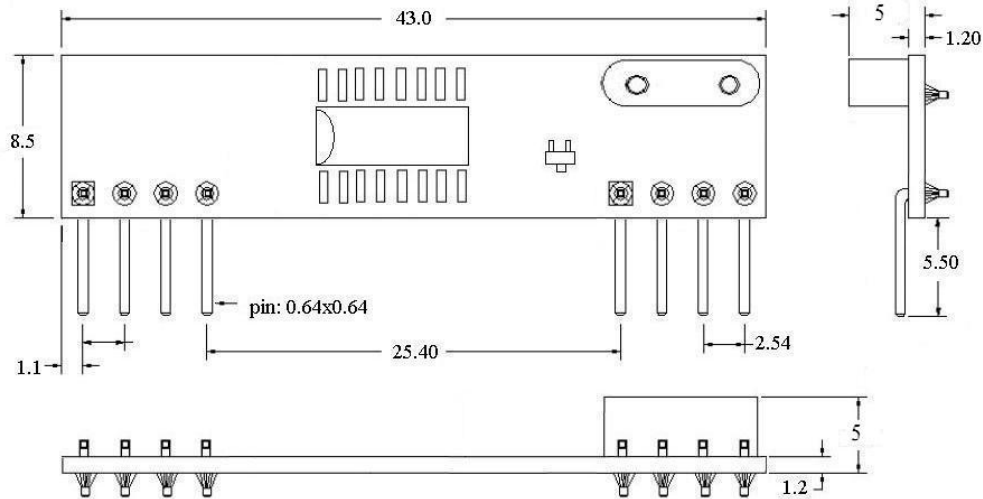
Mechanical Size: (Unit: MM)

Figure2 CY02 Dimension

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

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