

DESCRIPTION

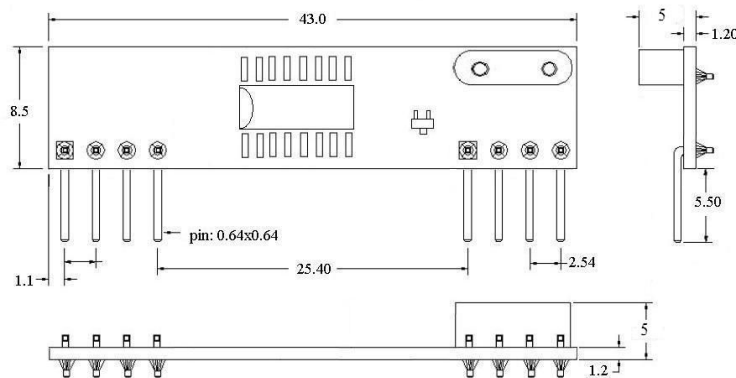
CY02 is an ASK/OOK compatible super-heterodyne receiver, which is designed with high sensitivity, long distance, easy use for designing. The CY02 is base on a single-conversion, super-heterodyne receiver architecture and incorporates an entire Phase-Locked Loop (PLL) for precise local oscillator generation. It can be used in OOK/ HCS/ PWM modulation signal and demodulate to digital signal. CY02 have a high performance at a competitive cost and easily to design your product.

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

MECHANICAL DIMENSION

Figure 2 CY02 Dimension

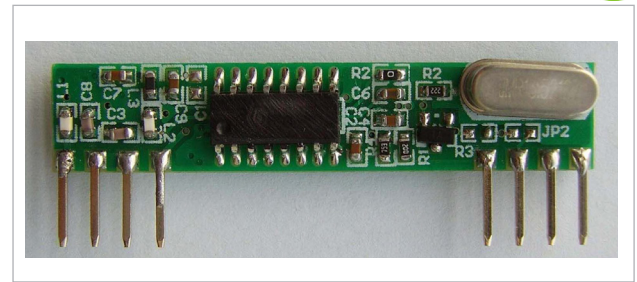


Condition: Ta=25°C VCC=5.0V Frequency=315MHz

ELECTRICAL CHARACTERISTICS					
Parameters	Condition	Reference Value			Unit
		Min	Typ	Max.	
Frequency Range	other freq. available		315		MHz
Receiver Sensitivity	BER=10E-2		-110		dBm
Data Rate	Manchester Code	0.58	2.4	4.8	KBaud
Supply Voltage VDD	DC	3.6		5.5	V
Current	DC		4.6		mA
Operating Temperature		-20		+70	°C

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

ELECTRICAL CHARACTERISTICS					
Parameters	Condition	Reference Value			Unit
		Min	Typ	Max.	
Frequency Range	other freq. available		433.92		MHz
Receiver Sensitivity	BER=10E-2		-110		dBm
Data Rate	Manchester Code	0.58	2.4	4.8	KBaud
Supply Voltage VDD	DC	3.6		5.5	V
Current			6.0		mA
Operating Temperature		-20		+70	°C



APPLICATION

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

PIN DEFINITION

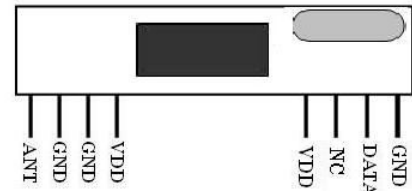


Figure 1 CY02 Shape & Pins

Pin-out as showed in figure 1 above

Pin Name	Pin Definition
ANT	RF signal input pin, connect antenna outside (Note 1)
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 length is about: 23cm for 315MHz, 17cm for 433.92MHz

ORDER INFORMATION:

CY 02 - 433.92 S

