

ASK Superheterodyne radio receiver module

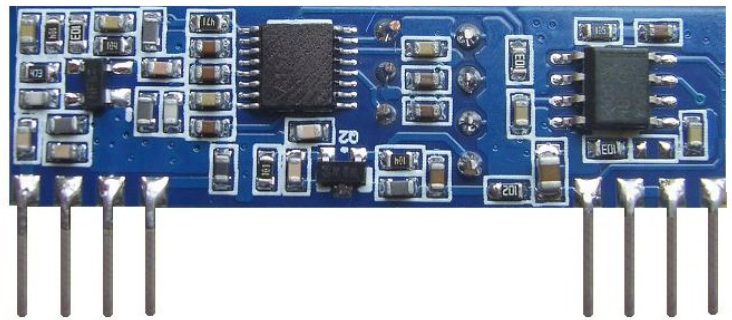
RCT01TRXB09 is a superior performance receiver module for ISM band. With the adoption of UHF technic of wireless communication, low noise large scale integrated circuit. It has cost effective, perfect ability of ESD and high reliability. Its superior performance makes rolling codec remote control and electric door-controller adopt this module. This module is widely applied in Remote control garage door, Retractable door, Barrier and so on. Used for For the GSM / GPS car system supporting, Indust rial control, communications and security fields, Used in complex systems environment requires by this receiving system is good choice. It can do wireless signal input to the data signal output without any external circuit. Users only need to decode the data plus a simple circuit and then any wireless products development can be easily achieved.

Product Key Features::

- (1) Receiver sensitivity to--114dBm;
 - (2) Working frequency: 315 MHz;433 MHz;
 - (3) Voltage input range:: 4.5V-5.5V;
 - (4) Low power consumption,5.0 V/10.6mA;
- The speed of data transmission
5kbps ((Manchester coding)

(5) Good selectivity and inhibition of stray radiation, easy to get CE/Fcc.

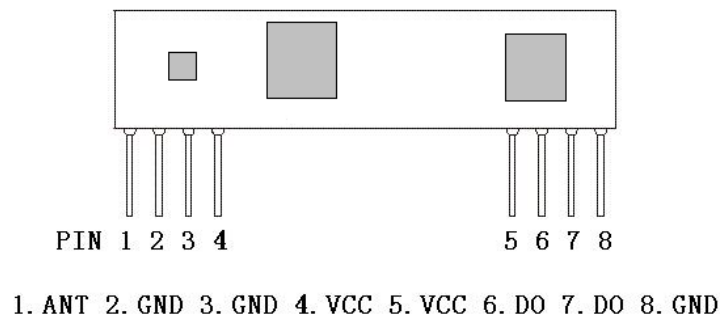
(6) Temperature Range: -30-85°C



Application

- (1) (RKE) ;
- (2) Remote control door opener、Barrier;
- (3) Wireless alarm and security system; ;
- (4) Remote control curtains;
- (5) Wireless industrial controllers;
- (6) Wireless data transmission;

Pin assignment and size:



PIN NO.	Name	Function Explanation
1	ANT	Antenna Input
2	GND	Ground
3	GND	Ground
4	VDD	Positive Power Supply
5	VDD	Positive Power Supply
6	DO	Data Output
7	DO	Data output
8	GND	Ground

Electrical parameters:

Under the testing conditions as follows:

5V power supply, temperature: 25°C Frequency:315MHz

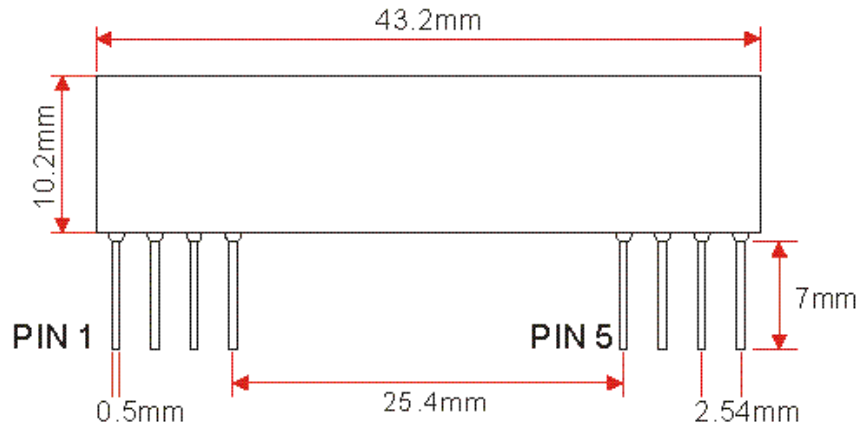
Parameters	Symbol	Status	Reference Value			Unit
			Minimum	Standard	Maximum	
Working Frequency	Fc		314.90	315.00	315.10	MHz
Modulation			ASK			
Receiver Sentivity		500ohm antenna input / 1K Kbps		-114		dBm
Receiving Bandwidth				200		KHz
Receie on-time	Ton				9	ms
Working Voltage			4.5	5.0	5.75	V
Working Current	IRC				9.6	mA
Image Rejection		293.6MHz		20		dB
Decoding output maximum voltage		RL=500K	2.8	3.75	5	V
Decoding output minimum voltage					0.5	V
Working Temperature			-30		+85	°C

Under the testing conditions as follows:

5V power supply, temperature: 25°C Frequency:433.92MHz

Parameters	Symb ol	Status	Reference Value			Unit
			Minimum	Standard	Maximu m	
Working Frequency	Fc		433.82	433.92	434.02	MHz
Modulation			ASK			
Receiver Sentivity		500ohm antenna input /1K Kbps		-114		dBm
Receiving Bandwidth				200		KHz
Receie on-time	Ton				9	ms
Working Voltage			4.5	5.0	5.75	V
Working Current	IRC				9.6	mA
Image Rejection		412.52MHz		20		dB
Decoding output maximum voltage		RL=500K	2.8	3.75	5	V
Decoding output minimum voltage					0.5	V
Working Temperature			-30		+85	°C

Module Outline Dimension Drawing:



Module Name explanation: RCT01TRXB09-315M

RX. Represents the meaning of receiving

B. Represents of the version number of the module

9. Represents the Chips used in the module

315M. Represents the frequency is 315MHz module