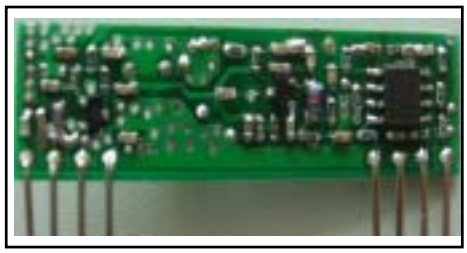
Holy Stone Enterprise Co., Ltd

MO-RXLC-A

SUPER-REGENERATION RECEIVER MODULE

315/434 MHz ASK RECEIVER

Description

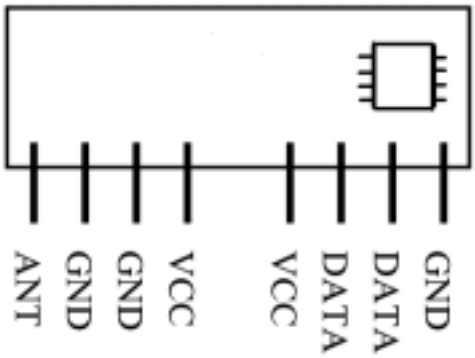


MO-RXLC-A is an ASK receiver module. The MO-RXLC-A is based on a single-conversion ,super-regeneration receiver architecture .It can use in OOK / HCS / PWM modulation signal and demodulate to digital signal. MO-RXLC-A had a high performance and easily to design your product.

It can be used on wireless security system or specific remote-control function and others wireless system

Features

- Low power consumption.
- Easy for application.
- Operation temperature range : －20℃ ＋80℃
- Operation voltage : 5 Volts.
- Available frequency at : 315/434 MHz



Applications

- Car security system
- Remote keyless entry
- Garage door controller
- Home security
- Wireless mouse
- Automation system

Product Identification

315MHz	**MO-RXLC-AS315M**
433.92MHz	**MO-RXLC-AS434M**

禾伸堂企業股份有限公司
Holy Stone Enterprise CO.,LTD
TEL:886-2-26596722
FAX:886-2-26596720
VER 2.0 2004-6-20

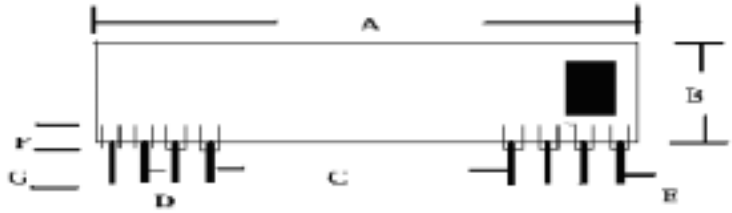
Absolute Maximum Ratings

Parameter	Rating	Units
Supply Voltage	5.0	V DC
Operating Temperature	-20~+80	℃

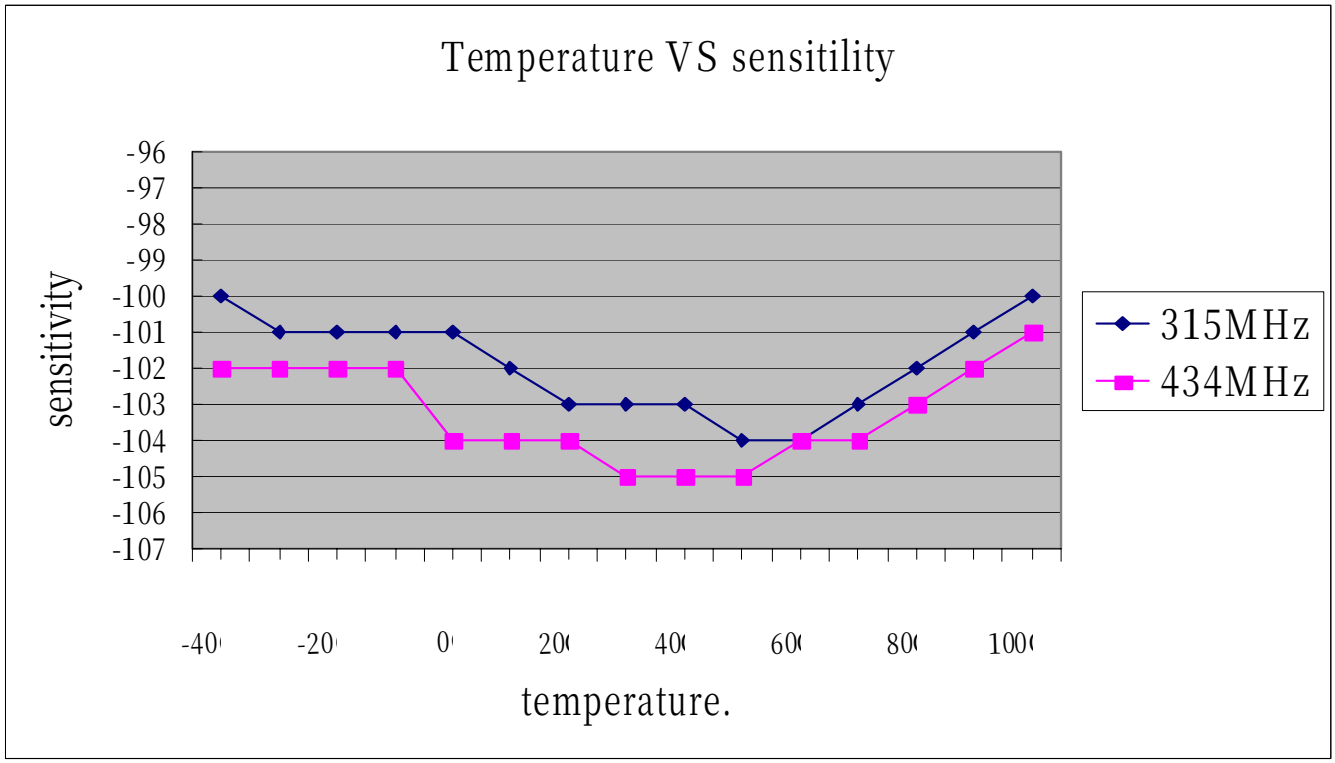
Absolute Maximum Ratings

Parameter	Symbol	Condition		Specification			Unit
				Min.	Typical	Max.	
Operation Voltage				3.5	5	5.5	V
Sensitivity	Psens	Vcc=5.0V, 1Kbps Data Rate	315MHz		-104	--101	dBm
			434MHz		--104	--101	dBm
ASK out logic HIGH	VOH	Iload = 30 μ A		0.7*Vcc			V DC
ASK out logic LOW	VOL	Iload = 30 μ A				0.3*vcc	V DC
Supply current	Icc				3.5	4.5	mA
Tune on Time	Ton	Data start out by Vcc turn on			25		ms
Data Rate				300	1k	6k	bps
Output duty		Vcc=5V; 1kbps data rate		40		60	%

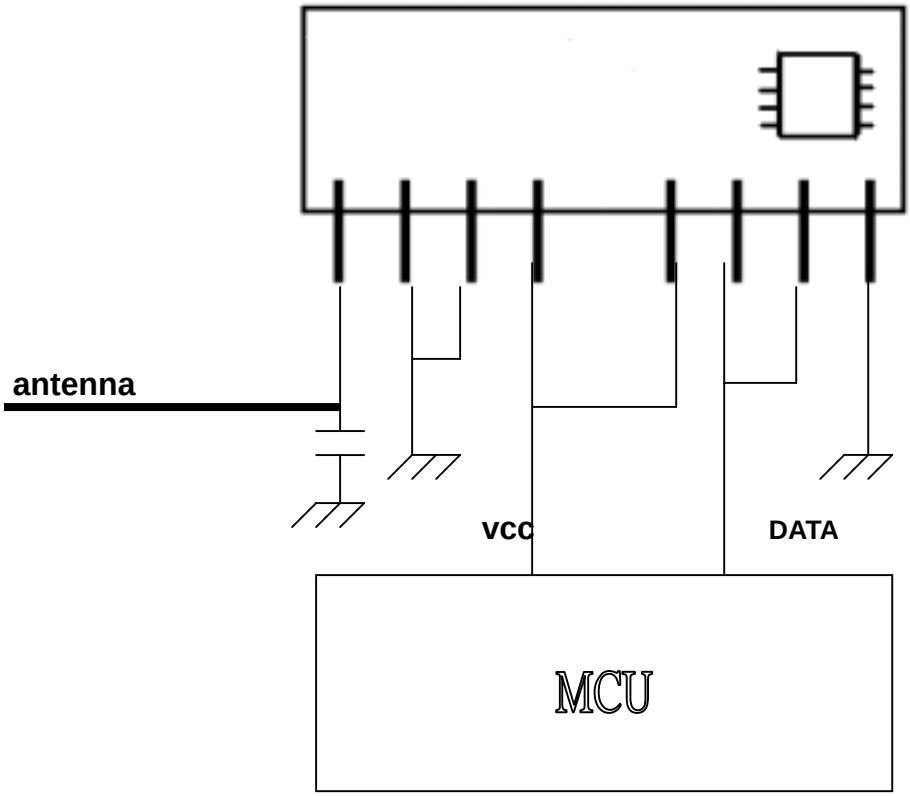
Pin Dimension



Dimensions	Millimeters	Dimensions	Millimeters
A	43.5 + 0.25mm	F	2.50 + 0.15mm
B	12 + 0.25mm	G	3.50 + 0.15mm
C	25.2 + 0.30mm	H	7.2 + (MAX)
D	2.54 + 0.05mm	I	0.32 + 0.05mm
E	0.65 + 0.05mm		


Temperature VS sensitility
sensitivity
-96
-97
-98
-99
-100
-101
-102
-103
-104
-105
-106
-107
-40
-20
0
20
40
60
80
100
temperature.
315MHz
434MHz

Appication



Mark:

1. Antenna length about :23cm for 315MHz
   17cm for 434mHz
2. Receiver range about 100m with MO-TX4915-A315M (MO-TX4915-A315M) Module
   about 120m with MO-SAWR-A315M(MO-SAWR-A434M) module
   (Tested in open space)