

### ASK Super Regenerative Receiver

#### ST-RX02-ASK Receiver

#### 315/434 MHz ASK RECEIVER

##### General Description:

The ST-RX02-ASK is an ASK Hybrid receiver module.

It is a effective low cost solution for using at 315/433.92 MHZ.

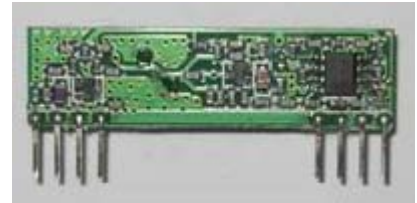
The circuit shape of ST- RX02-ASK is L/C.

Receiver Frequency: 315 / 433.92 MHZ

Typical sensitivity: -105dBm

Supply Current: 3.5mA

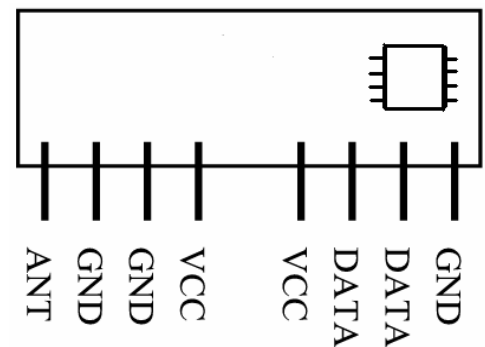
IF Frequency: 1MHz



##### Features:

- Low power consumption.
- Easy for application.
- Operation temperature range : -10°C ~ +60°C
- Operation voltage: 5 Volts.
- Available frequency at: 315/434 MHz

##### Pin Description:

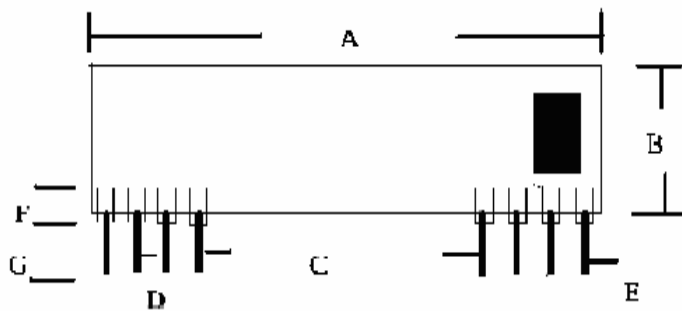


##### Applications

- Car security system
- Wireless security systems
- Sensor reporting
- Automation system
- Remote Keyless entry

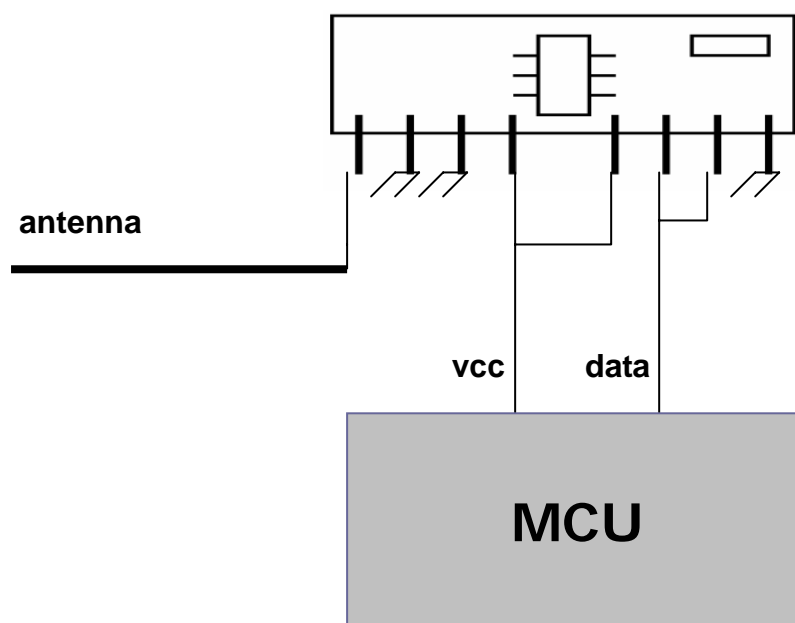
**Electrical Characteristics :**

CHARACTERISTIC		MIN	TYP	MAX	UNIT
V <sub>CC</sub>	Supply Voltage		5		VDC
I <sub>S</sub>	Supply Current		3.5	4.5	mA
F <sub>R</sub>	Receiver Frequency		315/434		MHz
RF Sensitivity(V <sub>CC</sub> =5V 1Kbps Data Rate)			-105		dBm
Max Data Rate		300	1k	3k	Kbit/s
V <sub>OH</sub>	High Level Output (I=30uA)	0.7V <sub>CC</sub>			VDC
V <sub>OL</sub>	Low Level Output (I=30uA)			0.3V <sub>CC</sub>	VDC
Turn On Time(V <sub>CC</sub> off-Turn on)			25		ms
T <sub>OP</sub>	Operating Temperature Range	-10		60	°C
Output Duty		40		60	%

**Mechanical 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		

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**Typical Application:****Remark:**

1. Antenna length about :23cm for 315MHz  
17cm for 434MHz