

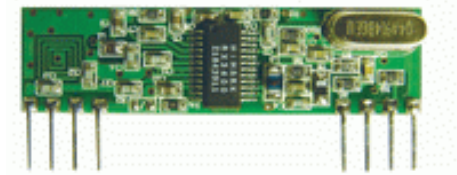
## ASK RECEIVER MODULE

Description:

### 315/434 MHz ASK RECEIVER

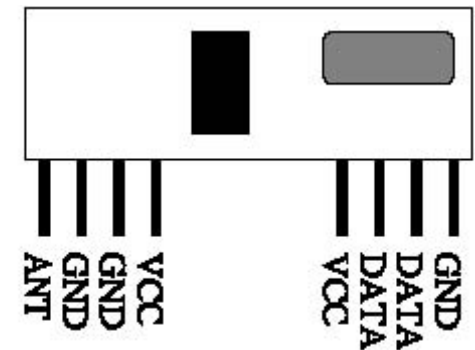
**RXB1** is an ASK receiver module. The RXB1 is based on a single-conversion, super-heterodyne receiver architecture and incorporates an entire Phase-Locked Loop (PLL) for precise local oscillator generation. It can use in OOK / HCS / PWM modulation signal and demodulate to digital signal. RXB1 has a high performance and is easy to design your product.

It can be used on wireless security system or specific remote-control function and other wireless systems.



### Features

- Low power consumption.
- Easy for application.
- On-Chip VCO with integrated PLL using crystal oscillator reference.
- Integrated IF and data filters.
- Operation temperature range : - 20°C ~ +85°C
- 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	RXB1-315M
433.92MHZ	RXB1-434M

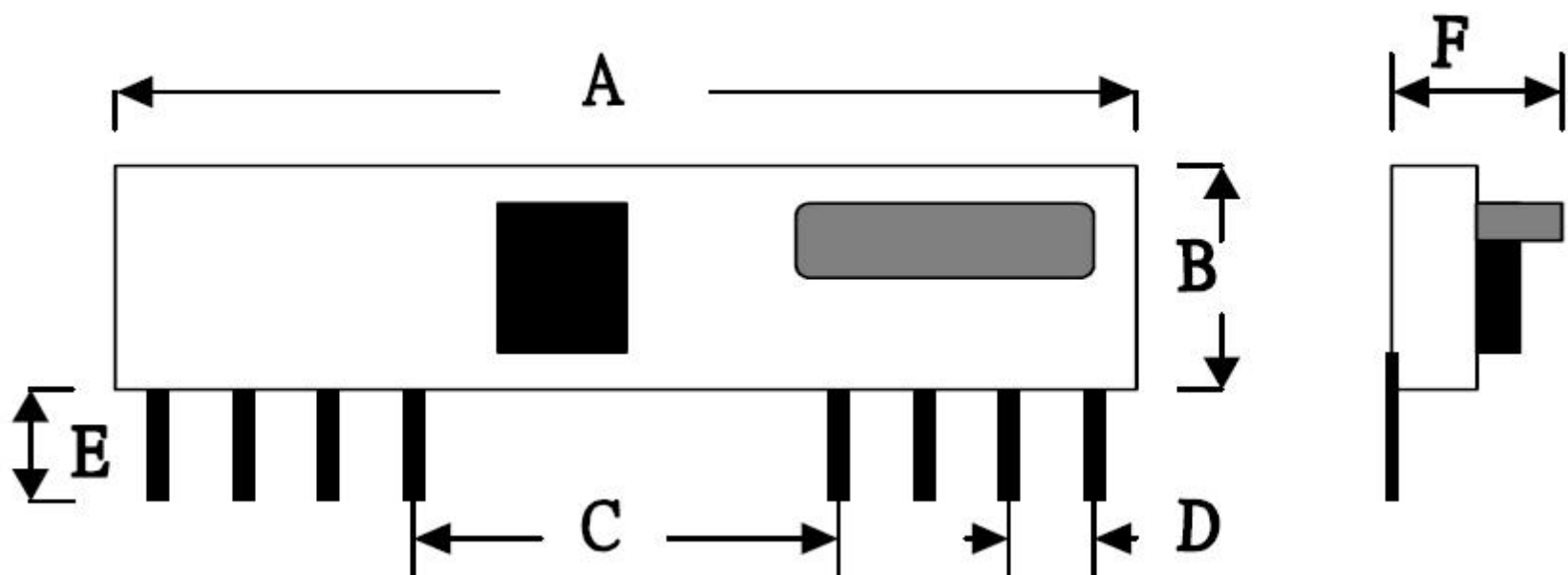
### Absolute Maximum Ratings

Parameter	Rating	Units
Supply Voltage	5.5	V DC
Operating Temperature	-20 to +85	°C

### Electronical Characteristics

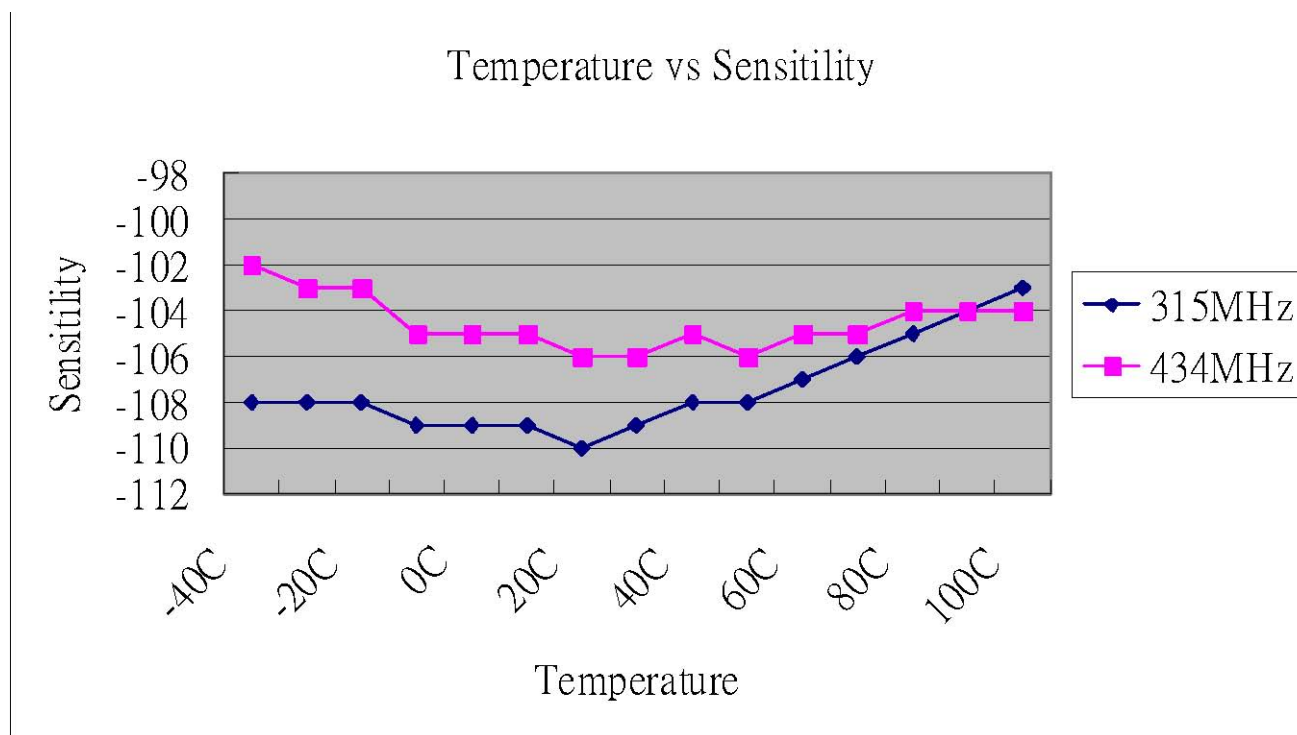
Parameter	Symbo l	Condition	Specification			Unit
			Min.	Typical	Max.	
Operation Voltage			4.5	5	5.5	V
Sensitivity	Psens	Vcc=5.0V, 1Kbps Data Rate	315MHz	-107	-103	dBm
			434MHz	-105	-102	dBm
ASK out logic HIGH	VOH	Iload = 10 $\mu$ A	0.7*Vcc			V DC
ASK out logic LOW	VOL	Iload = 10 $\mu$ A			0.3*vcc	V DC
Supply current	Icc			2.3	3.0	mA
Tune on Time	Ton	Vcc Off- turn on	25	30		ms
Data Rate			300	-	8k	bps
Output duty		Vcc=5V; 1kbps data rate	40		60	%

### Pin Dimension

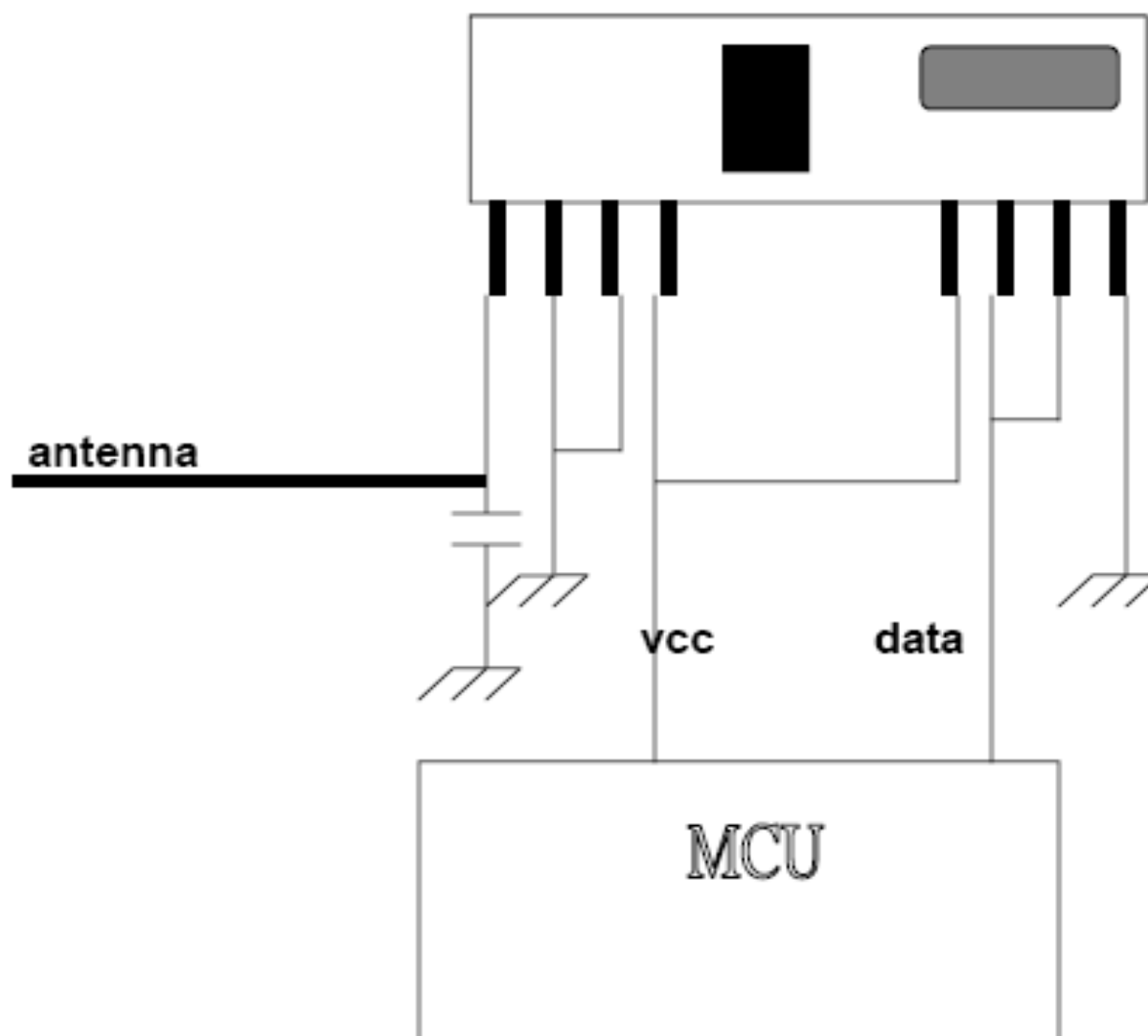


Name	Dimension	Name	Dimension
<b>A</b>	43mm+-0.5mm	<b>D</b>	2.54mm+-0.3mm
<b>B</b>	12.4mm+-0.5mm	<b>E</b>	5mm+-0.5mm
<b>C</b>	25.4mm+-0.3mm	<b>F</b>	6mm (Max)

### Typical Characteristics



### Appication



### Notes:

Antenna : Length = 22.6cm for 315MHz ; Length = 17.2 cm for 433.92MHz.