



# Holy Stone Enterprise Co., Ltd

## MO-RX3400-A

### ASK RECEIVER MODULE

#### 315/434 MHz ASK RECEIVER

#### Description

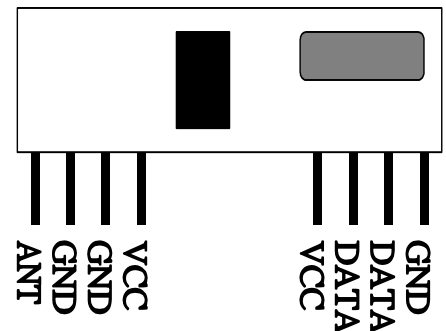
MO-RX3400-A is an ASK receiver module. The MO-RX3400-A is based on a single-conversion ,super-heterodyne receiver architecture and incorporates an entire Phase-Locked Loop (PLL) for precise local oscillator generation. It can use in OOK / HCS / PWM modulation signal and demodulate to digital signal. MO-RX3400-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.
- 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

<b>315MHz</b>	<b>MO-RX3400-A315M</b>
<b>433.92MHz</b>	<b>MO-RX3400-A434M</b>

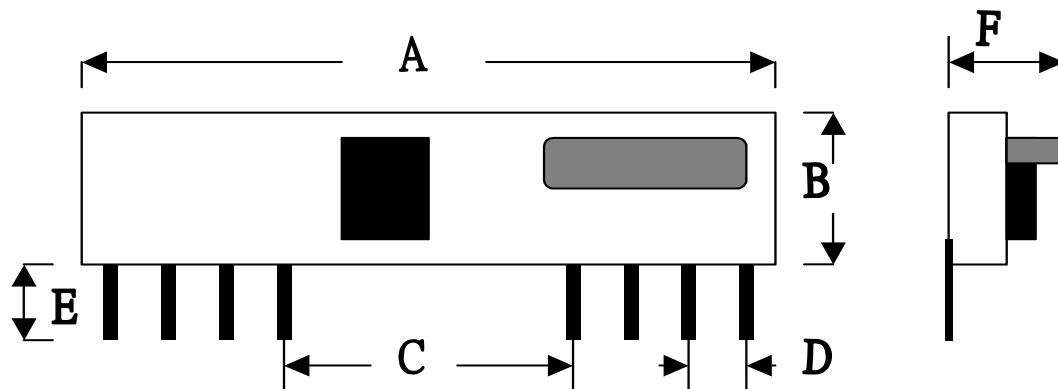
**Absolute Maximum Ratings**

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

**Electrical Characteristics**

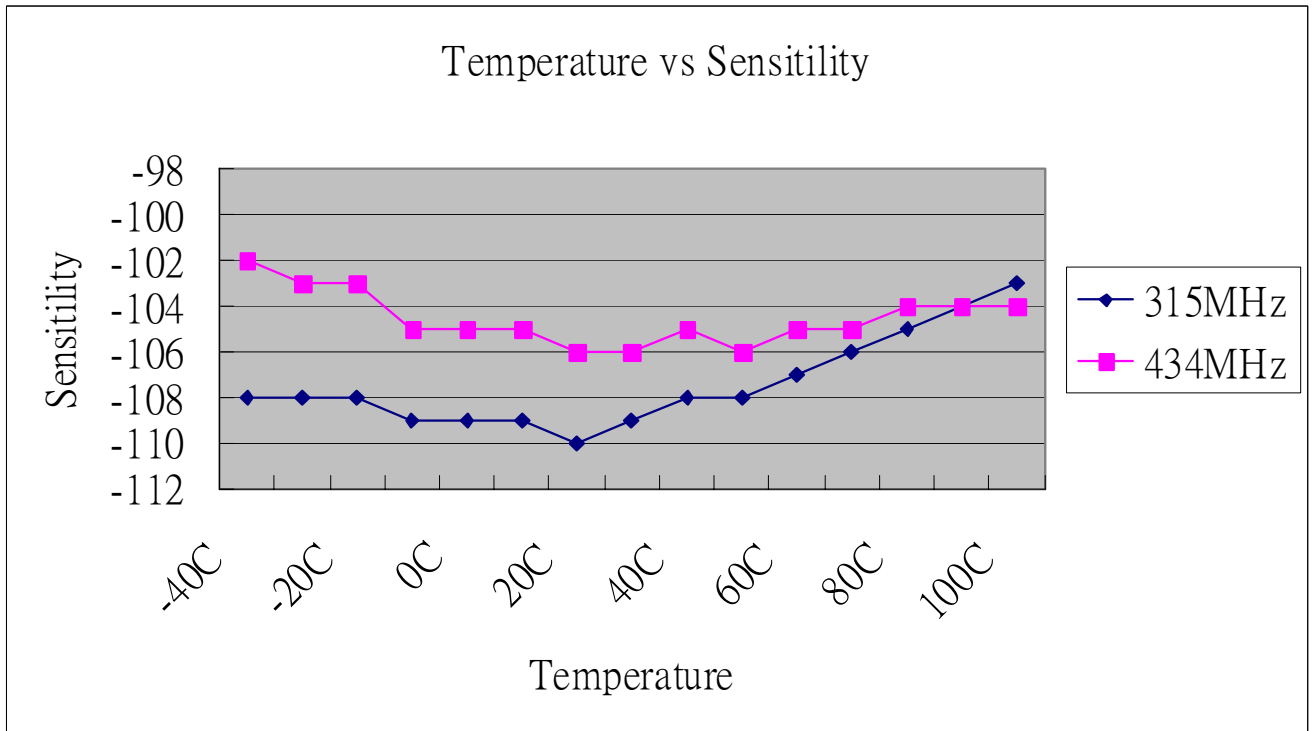
Parameter	Symbol	Condition	Specification			Unit
			Min.	Typical	Max.	
Operation Voltage			4.5	5	5.5	V
Sensitivity	Psens	Vcc=5.0V, 1Kbps Data Rate	315MHz	-107	-103	dBm
			434MHz	-105	-102	dBm
ASK out logic HIGH	VOH	Iload = 10 μA	0.7*Vcc			V DC
ASK out logic LOW	VOL	Iload = 10 μA			0.3*vcc	V DC
Supply 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**

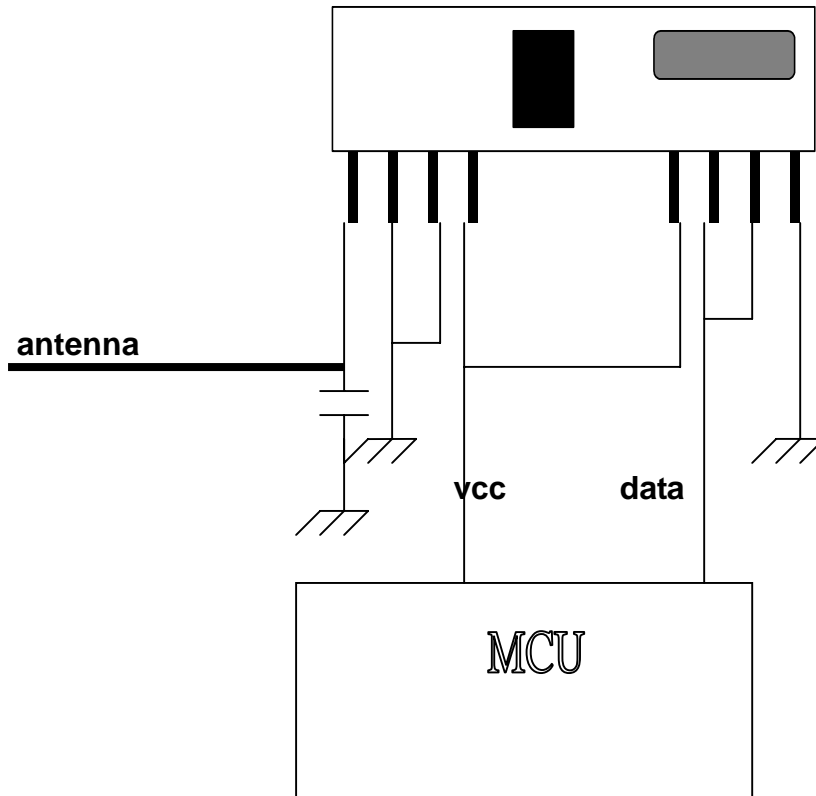


Name	Dimension	Name	Dimension
<b>A</b>	43mm±0.5mm	<b>D</b>	2.54mm±0.3mm
<b>B</b>	12.4mm±0.5mm	<b>E</b>	5mm±0.5mm
<b>C</b>	25.4mm±0.3mm	<b>F</b>	6mm (Max)

Typical Characteristics



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**Appication****Mark:**

1. Antenna length about :23cm for 315MHz  
17cm for 434mHz
2. Receiver range about 100m with MO-TX4915-A315M ( OR MO-TX4915-A434M) module  
about 150m with MO-SAWR-A315M( OR MO-SAWR-A434M) module  
(Tested in open space)