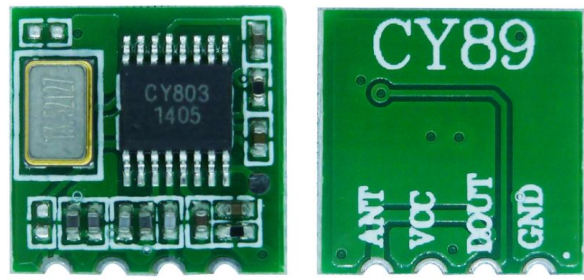


**Type: ASK/OOK Super-Heterodyne Receiver Module**  
**Model: CY89-V1.1-XXX**

## 1. DESCRIPTION:

The CY89-V1.1 is a ASK/OOK compatible super heterodyne wireless receiving module with high performance for ISM frequency band. With the adoption of European brand RF wireless data transferring/receiver chipsets. The model has a high receiving sensitivity and strong ability of resisting. From wireless signal input to data output can be done without any electrical circuit. User only use extra simple data decode circuit can achieve wireless products development.

CY89-V1.1 is for industrial level version.



## 2. FEATURES:

- Frequency: 315MHz/433.92MHz ;
- High sensitivity -110dBm@433.92 1kbps BER10E-2;
- Supply voltage: VCC= 3.6 to 5.5 V;
- IF band: 230KHz;
- Low power consumption: 4.7mA@315M, 7.0mA@433.92M.
- Temperature:-20 ~ 70°C; (Customized -40 ~ 85°C is available)
- Excellent selectivity and noise rejection;
- SIL(single in line) small package

## 3. APPLICATION:

- Remote gate controls
- Remote keyless entry
- Car alarm systems
- wireless security systems
- Automation systems

#### 4. PIN DEFINITION:

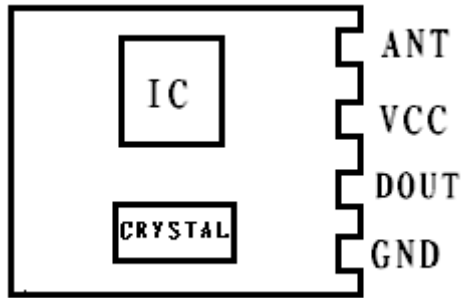


Figure1 CY89-V1.1Shape & Pins

Pin-out as showed in figure1 above.

Pin Name	Pin Definition
ANT	RF signal input pin, connect antenna outside( <b>Note1</b> )
VCC	Connect to positive power supply
DOUT	Data Pin
GND	Connect to negative power supply

**Note1:** ANT pin is a 50 ohm antenna input. The length is about:  
 23cm for 315MHz  
 17cm for 433.92MHz

#### 5. ELECTRICAL CHARACTERISTICS:

Condition: Ta=25°C Vcc=5.0V Frequency=315MHz

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range		315		MHz	Other freq. available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	2.4	4.8	Kbps	Manchester code
Supply Voltage, VDD	3.6		5.0	V	DC
Current		4.7		mA	DC
Operating Temperature	-20/-40		+70/85	°C	

Condition: Ta=25°C Vcc=5.0V Frequency=433.92MHz

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range		433.92		MHz	Other freq available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.58	2.4	4.8	Kbps	Manchester code
Supply Voltage, VDD	3.6		5.0	V	DC
Current		7.0		mA	DC
Operating Temperature	-20/-40		+70/85	°C	

### 6. MECHANICAL SIZE: (UNIT: mm)

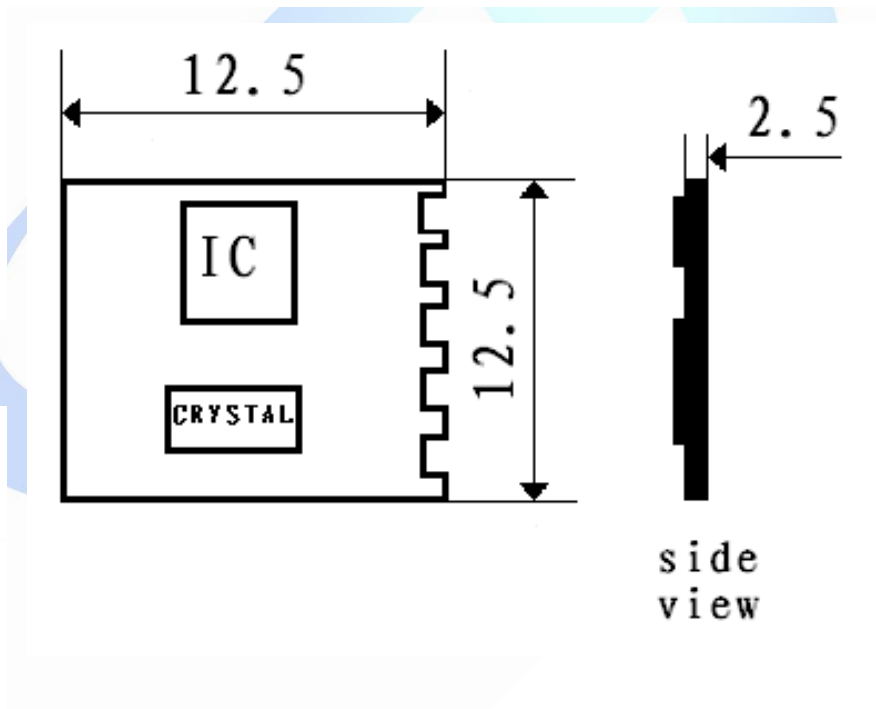
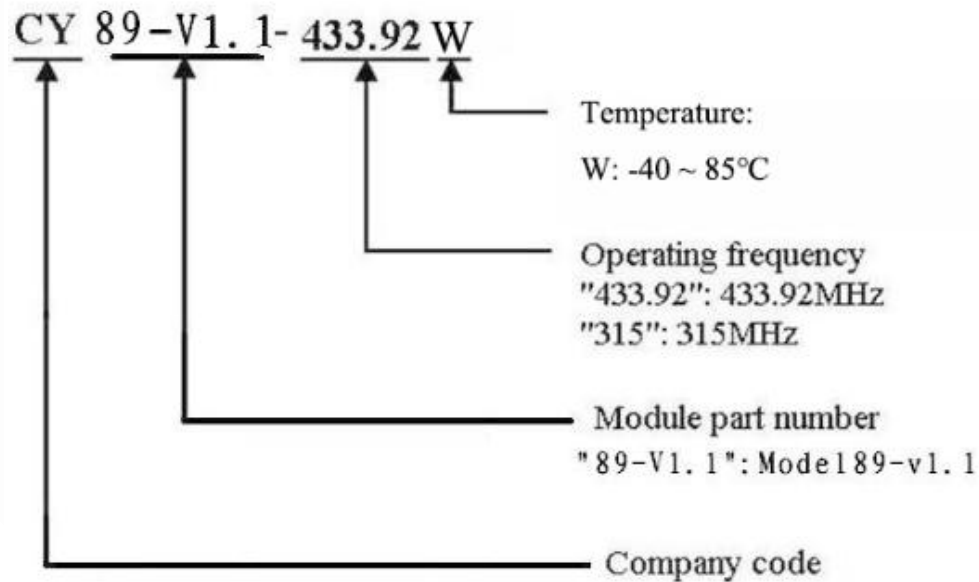
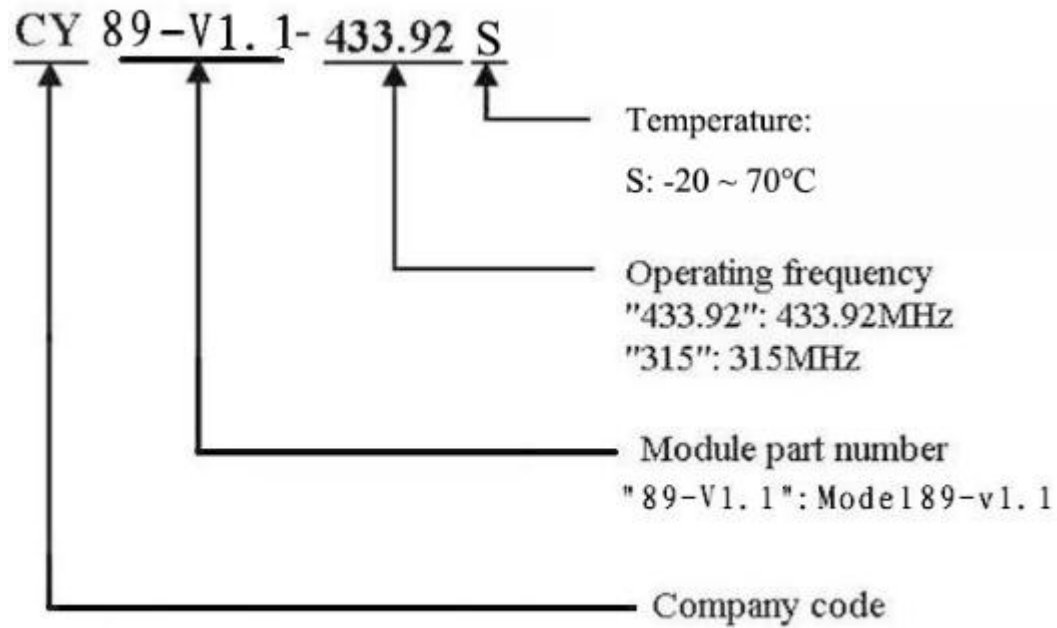


Figure2 CY89-V1.1 Dimension

**7. ORDER INFORMATION:**



For more information and assistance, please contact us as follows:

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