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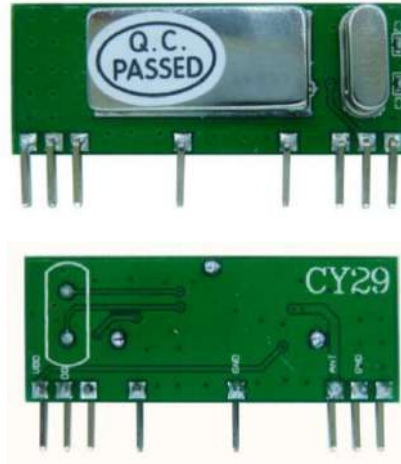
**Type: ASK/OOK/FSK Super-Heterodyne Receiver Module**

**Model: CY29-XXX**

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### Description:

The CY29 is an ASK/OOK/FSK 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 module has advantages at high receiving sensitivity, small size and low cost. It solves the problem on space for the small-sized product. 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



### Order Information:

Model NO.	Freq.	Modulation
CY29-315-ASK	315MHz	ASK
CY29-433-FSK	433.92MHz	FSK

### Features:

- Frequency: 300M – 960M (ASK/FSK);
- High sensitivity -109dBm;
- Supply voltage: 1.8V - 3.6V;
- Data Rate: 2.4Kbps;
- Low power consumption:  
ASK @ 3.3V: 868.325MHz-5.2mA; 433.92MHz-3.8mA; 315M-3.5mA ;  
FSK @ 3.3V: 868.325MHz-5.7mA; 433.92MHz-4.3mA; 315M-4.0mA ;
- Operating temperature: -20°C ~ 70°C, work normally even in the severe temperature environment;
- Excellent inhibiting ability for local oscillator radiation: multiple receivers receive signals from one transmitter simultaneously without any mutual interference



and influence on range;

- 38\*14.5\*5mm;

### Application

- Remote door openers
- Remote keyless entry
- Wireless security systems
- Remote control
- Wireless door ring
- Wireless data transmission

### Pin Description

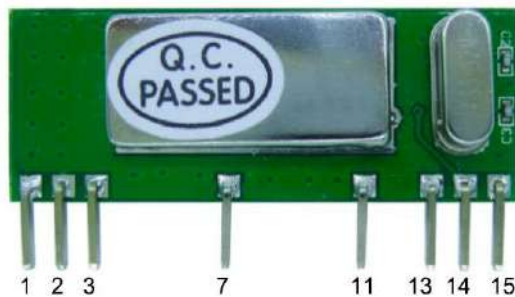


Figure1 CY29 Shape & Pins

Pin	Pin Name	Pin Definition
1	N.C.	Not Connected.
2-7	GND	Ground
3	Antenna	Antenna input, impedance 50 ohm.
11	N.C.	Not connected.
13	N.C.	Not connected..
14	Data Output	Data output from the receiver
15	+Vs	Positive Voltage Supply.



**Note 1:** ANT pin is a 50 ohm antenna input. The length is about:

23cm for 315MHz

17cm for 433.92MHz

8.6cm for 868.325 MHz

## Electrical Characteristics:

Condition: Ta=25°C Vcc=3.3V Frequency=315MHz FSK

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range		315		MHz	
Modulation	FSK				
RF Sensitivity		-108		dBm	50Ohm antenna input directly/1K Kbps
Receiving Bandwidth		25		KHz	
Supply Voltage, VDD	1.8	3.3	3.6	V	
Current	3.5	4.0	4.5	mA	
Image Rejection		35		dB	
Decoding output max. voltage		3.3		V	RL=500K
Decoding output min. voltage		0		V	
Operating Temperature	-20		70	°C	

Condition: Ta=25°C Vcc=3.3V Frequency=315MHz ASK

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range		315		MHz	
Modulation	ASK				
RF Sensitivity		-109		dBm	50Ohm antenna input directly/1K Kbps
Receiving Bandwidth		160		KHz	
Supply Voltage, VDD	1.8	3.3	3.6	V	
Current	3.5	4.0	4.5	mA	
Image Rejection		35		dB	
Decoding output max. voltage		3.3		V	RL=500K



Decoding output min. voltage		0		V	
Operating Temperature	-20		70	°C	

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

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range		433.92		MHz	
Modulation	FSK				
RF Sensitivity		-108		dBm	50Ohm antenna input directly/1K Kbps
Receiving Bandwidth		60		KHz	
Supply Voltage, VDD	1.8	3.3	3.6	V	
Current	3.8	4.3	4.8	mA	
Image Rejection		35		dB	
Decoding output max. voltage		3.3		V	RL=500K
Decoding output min. voltage		0		V	
Operating Temperature	-20		70	°C	

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

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range		433.92		MHz	
Modulation	ASK				
RF Sensitivity		-109		dBm	50Ohm antenna input directly/1K Kbps
Receiving Bandwidth		160		KHz	
Supply Voltage, VDD	1.8	3.3	3.6	V	
Current	3.8	4.3	4.8	mA	
Image Rejection		35		dB	
Decoding output max. voltage		3.3		V	RL=500K
Decoding output min. voltage		0		V	
Operating Temperature	-20		70	°C	



Condition: Ta=25°C Vcc=5.0V Frequency=868.325MHz/915M FSK

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range		868.325/ 915		MHz	
Modulation	FSK				
RF Sensitivity		-108		dBm	50Ohm antenna input directly/1K Kbps
Receiving Bandwidth		60		KHz	
Supply Voltage, VDD	1.8	3.3	3.6	V	
Current	5.2	5.7	6.2	mA	
Image Rejection		35		dB	
Decoding output max. voltage		3.3		V	RL=500K
Decoding output min. voltage		0		V	
Operating Temperature	-20		70	°C	

Condition: Ta=25°C Vcc=5.0V Frequency=868.325MHz ASK

Characteristics	Specification			Unit	Note
	Min.	Typ.	Max.		
Frequency Range		868.325/ 915		MHz	
Modulation	ASK				
RF Sensitivity		-109		dBm	50Ohm antenna input directly/1K Kbps
Receiving Bandwidth		160		KHz	
Supply Voltage, VDD	1.8	3.3	3.6	V	
Current	5.2	5.7	6.2	mA	
Image Rejection		35		dB	
Decoding output max. voltage		3.3		V	RL=500K
Decoding output min. voltage		0		V	
Operating Temperature	-20		70	°C	

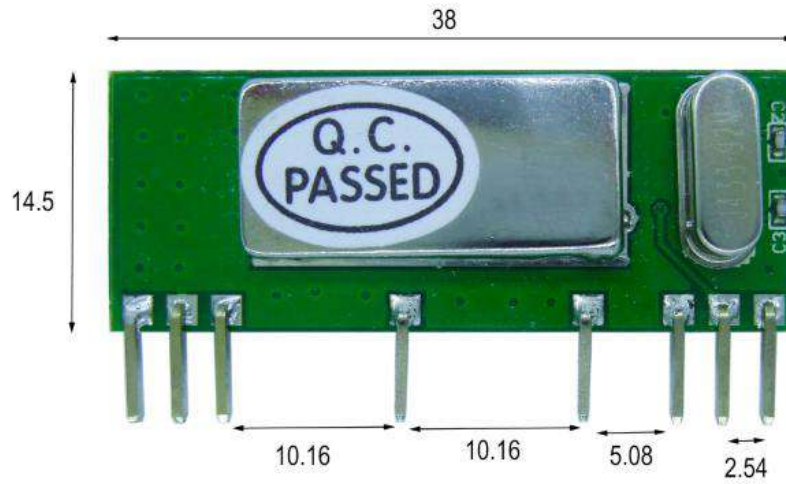
**Mechanical Size: (Unit: MM)**

Figure2 CY29 Dimension

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

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