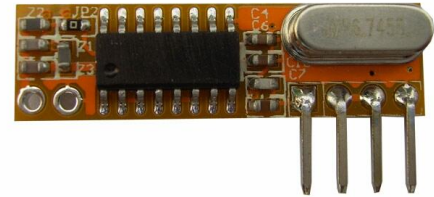


**Type:** ASK/OOK Super-Heterodyne Receiver Module  
**Model:** CY19-XXX

## 1. DESCRIPTION:

CY19 is an ASK/OOK receiver super-heterodyne, which is designed specifically for unlicensed remote-control and wireless security receiver operating at 315/433.92MHz under FCC Part 15 regulation or pass ETSI certification. The CY19 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 be used in OOK/ HCS/ PWM modulation signal and demodulate to digital signal. The CY19 is a highperformance module at a competitive cost and easily to design for your product. The CY19 module can be also a RoHS compliant product.



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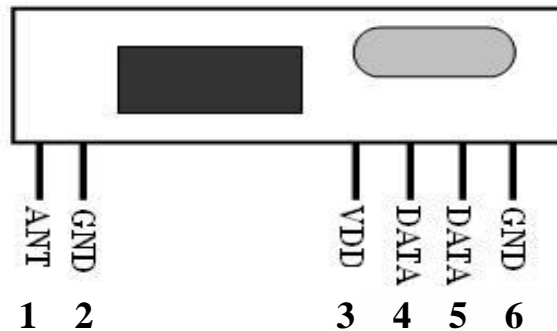
## 2. FEATURES:

- Low cost ASK/AM radio superhet receiver
- High frequency stability (no adjust components) & coherence
- Very low RF re-radiation at the antenna
- Operation temperature -20 ~70 degrees centigrade
- Supply voltage: 2.8~5.5v
- Available frequency: 315/433.92MHz (other Frequency customer selectable)
- Compatible with most AM (ASK/OOK) transmitters
- Lead Temperature (soldering, 3s): 330 degrees centigrade

## 3. APPLICATION:

- Smart home system
- Remote controls
- Remote fan and light control
- Garage door and gate openers
- Alarm and security system

#### 4. PIN DEFINITION:



**Please note:** CY19 is come with standard 4 PINs (without pin 1 & 2). Please notify us if you would like 6 PINs.

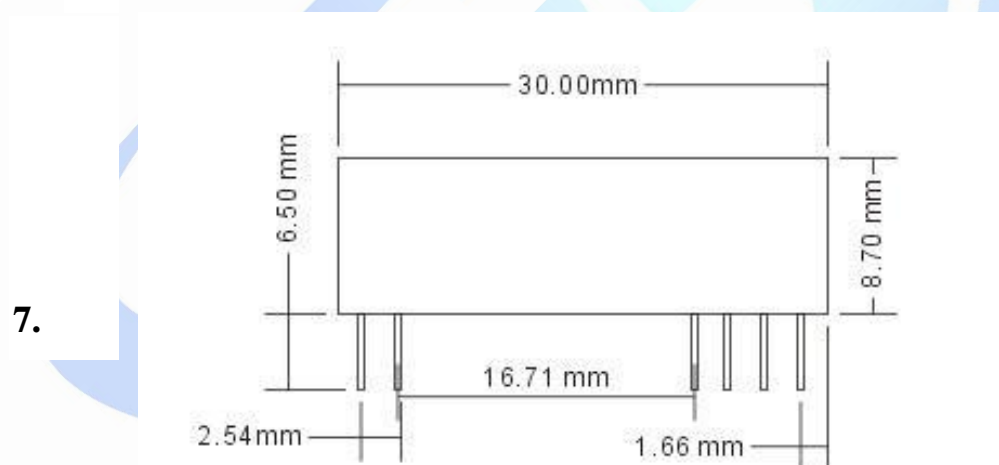
Pin Name	Pin Definition
ANT	RF signal input pin, connect antenna outside(Note1)
GND	Connect to negative power supply
VDD	Connect to positive power supply
DATA	Data output pin, connect to MCU or decoder's input pin
DATA	Data output pin, connect to MCU or decoder's input pin
GND	Connect to negative power supply

**Note1:** ANT pin is a 50 ohm antenna input. The length is about:  
 22.6cm for 315MHz  
 17cm for 433.92MHz

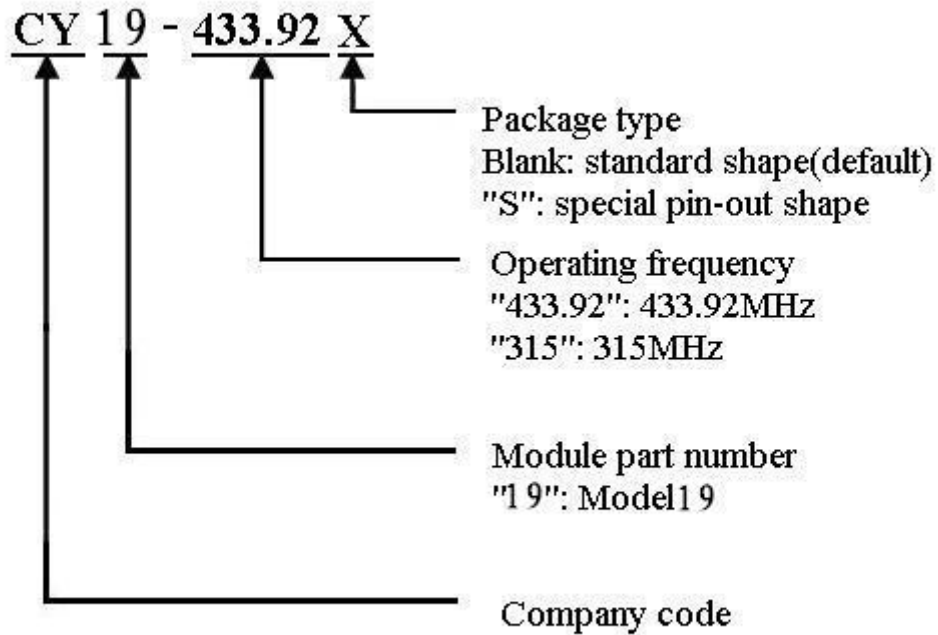
## 5. ELECTRICAL CHARACTERISTICS:

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	300	315/433.92	450	MHz	
Receiver Sensitivity	-110		-105	dBm	
Data Rate	-----	2.4	9.6	KBaud	
Supply Voltage, VDD	3.0		5.5	V	DC
Current	5.7		7.3	mA	
Operating Temperature	-20		+85	°C	

**Figure2 CY19 Dimension**



## ORDER INFORMATION:



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

**CY WIRELESS TECHNOLOGY LIMITED**

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Shenzhen, Guangdong Province, China

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