



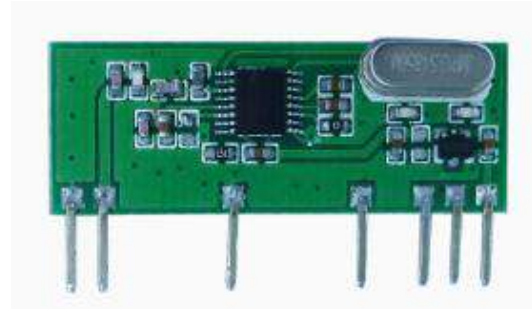
Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY18-XXX

Description:

The CY18 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.

The CY18 is for industrial level version.



Order Information:

Model NO.	Frequency
CY18-315	315 MHz
CY18-433	433.92 MHz

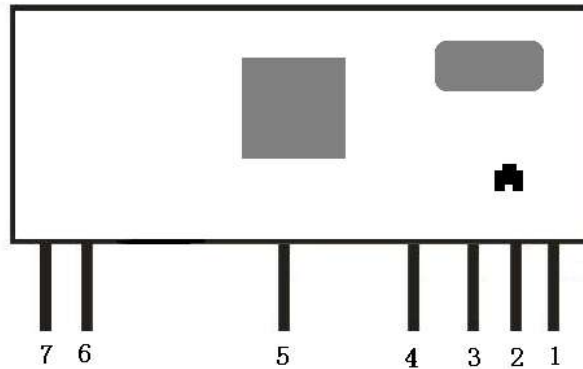
Features:

- Frequency: 315MHz/433.92MHz/868.35/915MHz(custom frequency is available);
- High sensitivity -112dBm@433.92 1kbps BER10E-2;
- Supply voltage: VCC= 3.6 to 5.5 V;
- IF band: 230KHz;
- Low power consumption: 4.8mA@315M, 6mA@433.92M.
- Wide operating temperature;
- Excellent selectivity and noise rejection;
- Easy for all applications;

Application

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

Pin Description



1. +5V 2. DATA 3. RSSI 4. NC 5. GND 6. ANT 7. GND

Figure1 CY18 Shape & Pins

Pin Name	Pin Definition
GND	Connect to negative power supply
ANT	Antenna In
GND	Connect to negative power supply
NC	No Connection
RSSI	Received Signal Strength Indication
DATA	Data Output
VDD	Positive Supply Power

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

23cm for 315MHz

17cm for 433.92MHz



Electrical Characteristics:

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

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Frequency Range	314.9	315	315.1	MHz	
Modulation	ASK				
Receiver Sensitivity		-110	-112	dBm	BER=10E-2
Data Rate	0.58		12	Kbps	
Supply Voltage, VDD	3.6	5.0	5.5	V	DC
Current	4.8		6	mA	
Operating Temperature	-40		85	°C	

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

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Frequency Range	433.82	433.92	434.02	MHz	
Modulation	ASK				
Receiver Sensitivity		-110	-112	dBm	BER=10E-2
Data Rate	0.58		9.6	Kbps	
Supply Voltage, VDD	3.6	5.0	5.5	V	DC
Current	4.8		6.0	mA	
Operating Temperature	-40		85	°C	

Mechanical Size: (Unit: MM)

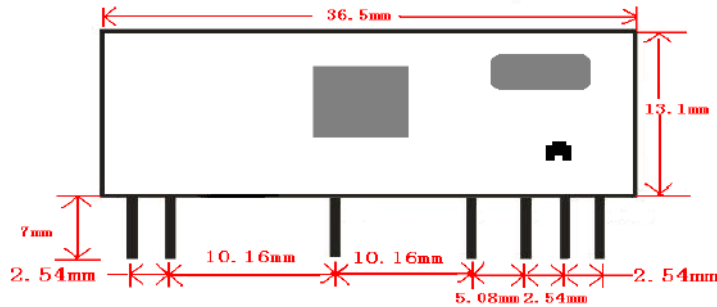


Figure2 CY18 Dimension



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

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