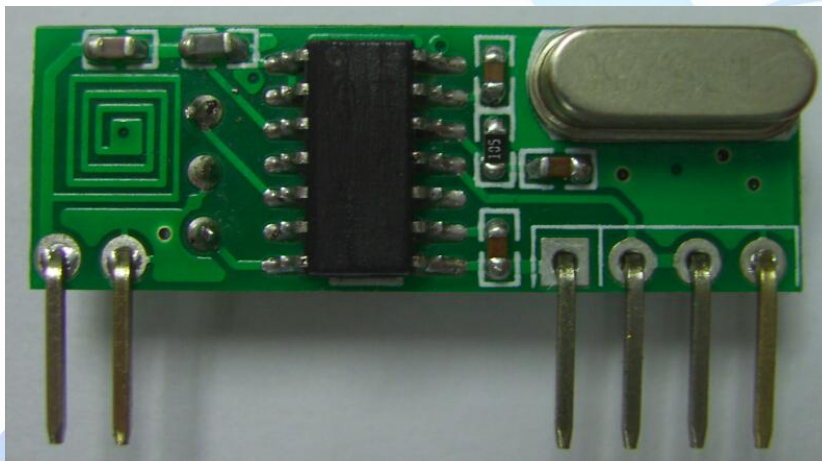


Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY55 (Low Power Consumption Receiver Module)

1. DESCRIPTION:

The CY55 is a ASK/OOK Super Heterodyne receiver module, which can be used to receive un-decoded data from the range of CY's Transmitter modules. The module is very simple to operate and offer a very low current consumption. This item has high receiver sensitivity and strong anti-interference ability. User can easily achieve the development of wireless products by adding a simply data decoding circuit.



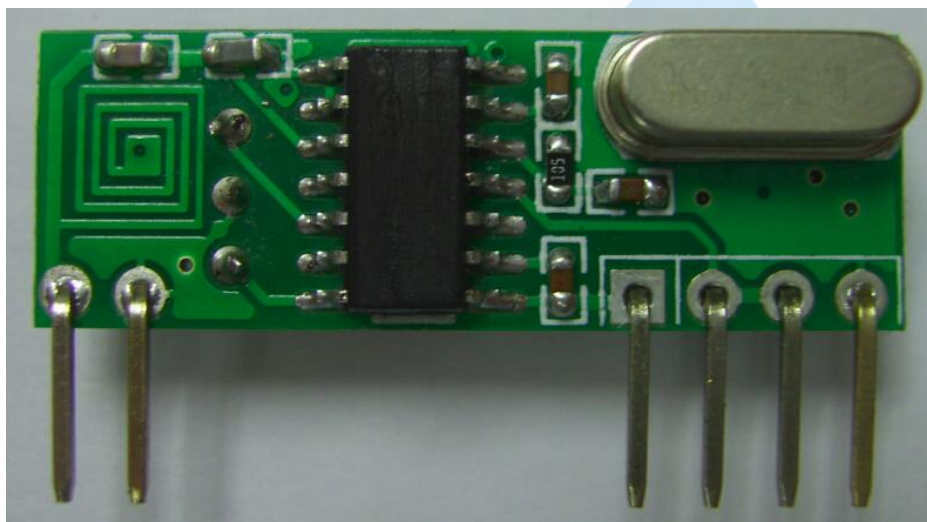
2. FEATURES:

- Frequency: 315MHz/433.92MHz(custom frequency is available)
- ASK/OOK modulation
- Data Rate: 2.4Kbps.
- Supply Voltage: 2.4V-5.0V
- Low Current Consumption, 2.7mA when working and standby current is 400Ua (315Mhz)
- Good selectivity and stray radiation inhibition ability, it's easy to go through the international standard such as CE/FCC.
- It can work with multiple receiving modules (single transmitter with multiple receivers) and do not interfere with each other and use them together will not affect the receiving distance.
- Temperature range: -30-85°C
- High Sensitivity : - 106dBm
-

3. APPLICATION:

- Wireless Security Systems
- Garage Door Controller
- Remote Gate Controls
- Data Communications
- RKE (Remote Keyless Entry)
- Wireless Curtain

4. PIN DEFINITION:



ANT GND

VDD DATA DATA GND

Pin Name	Pin Definition
ANT	Antenna In
GND	Ground
VDD	Positive Power Supply
DATA	Data Output
DATA	Data Output
GND	Ground

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

23cm for 315MHz ,
17cm for 433.92MHz



5. ELECTRICAL CHARACTERISTICS:

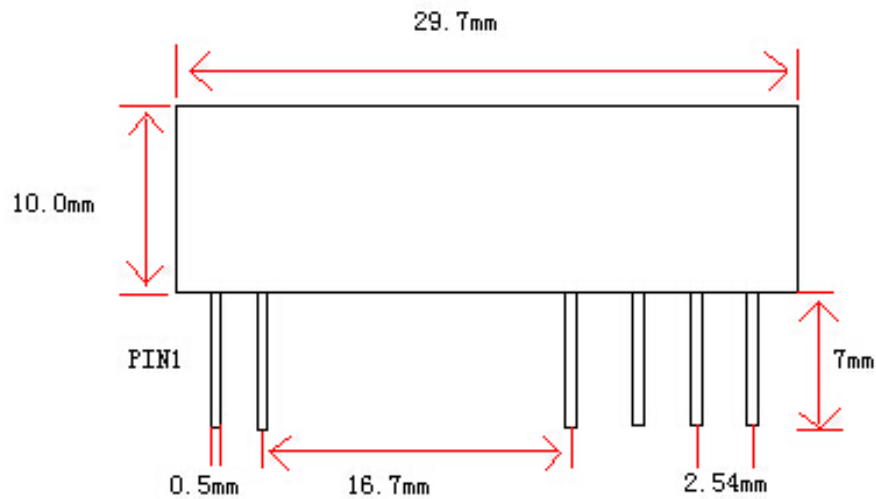
Condition: Ta=25°C Vcc=5.0V Frequency=315MHz

Parameter	Symbol	Condition	Reference Value			Unit
			Min	Typ	Max	
Working Freq.	Fc		314.90	315.00	315.10	MHz
Modulation			ASK			
Sensitivity		50 Ohm antenna input directly/1K Kbps		-106		dBm
Receiving Bandwidth				200		KHz
Receiver On time	Ton					3ms
Working Current	IRC		2.5	2.6	2.7	mA
Standby Current			390	400	410	uA
Image Rejection		304.3MHz		30		dB
Decoding the highest output voltage		RL=500K	5.0			V
Decoding the lowest output Voltage					0.5	V
Working Temperature			-30		+85	°C
Data Rate					2.4	Kbps

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

Parameter	Symbol	Condition	Reference Value			Unit
			Min	Typ	Max	
Working Freq.	Fc		433.82	433.92	434.02	MHz
Modulation			ASK			
Sensitivity		50 Ohm antenna input directly/1K Kbps		-106		dBm
Receiving Bandwidth				200		KHz
Receiver On time	Ton					3ms
Working Current	IRC		2.7	2.8	2.9	mA
Standby Current			400	410	420	uA
Image Rejection		423.22MHz		30		dB
Decoding the highest output voltage		RL=500K	5.0			V
Decoding the lowest output Voltage					0.5	V
Working Temperature			-30		+85	°C
Data Rate					2.4	Kbps

6. MECHANICAL SIZE: (UNIT: mm)



7. ORDER INFORMATION:

CY55-315M

CY---Brand Name

55---Receiver model number

315M---Working Frequency in 315Mhz

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

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