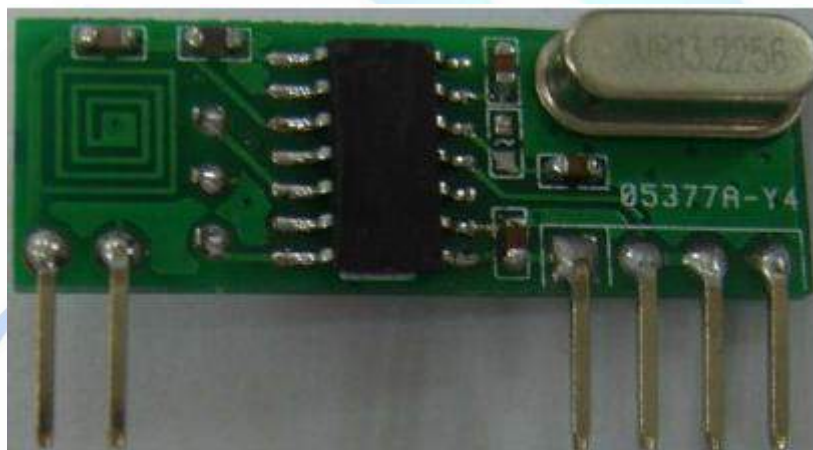


Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY54-XXX

1. DESCRIPTION:

The CY54 is 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 adapts Taiwanese Brand Industrial Level IC, which is very simple to operate and offer a low current consumption. Data can be transmitted directly into a microprocessor or decoding device. All receivers are compatible, producing CMOS/TTL Output, and only require connections to Power & Antenna.



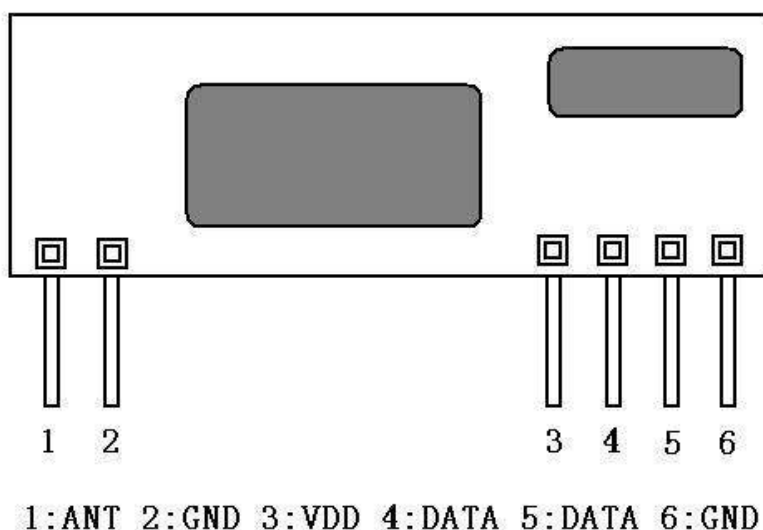
2. FEATURES:

- Frequency: 315MHz/433.92MHz(custom frequency is available)
- Receiving Sensitivity: -108dBm
- Supply Voltage: 2.4V – 5.5V
- Low Current Consumption: 2.6Ma (315Mhz).
- The data rate can reach 10Kbps
- Good capable of suppressing the vibration radiation. Multiple receiving modules can work at the same time (that is single transmitter and multiply receivers). There is no interference with each other it does not affect the receiving distance when multiple receivers work together.
- Operating temperature: -30°C ~ +85°C.
- Good selectivity and stray radiation inhibition ability, easy to go through international CE/Fcc certification;

3. APPLICATION:

- Remote gate controls, Brake
- Remote keyless entry (RKE)
- Wireless control Curtain device
- Wireless security systems
- Wireless Industrial Control
- Wireless parking lot barrier

4. PIN DEFINITION:



Pin Name	Pin Definition
ANT	RF signal input pin
GND	Ground
VDD	Connect to positive power supply
DATA	Data output pin
DATA	Data output 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	Symbol	Condition	Specification			Unit
			Min.	Typical	Max.	
Frequency Range	Fc		314.90	315.00	315.10	MHz
Modulation			ASK			
Receiver Sensitivity		50 Ohm Antenna direct input/1K Kbps		-108		dBm
Receiver Bandwidth				200		KHz
Receiver Turn on time	Ton				20	ms
Working Voltage			2.4	5.0	5.5	V
Working Current	IRC		2.5	2.6	2.7	mA
Highest Output Voltage when Decoding		RL=500K	5.5			V
Lowest Output Voltage when Decoding					0.5	V
Working Temperature			-30		+85	°C
Image Rejection		304.3Mhz				dB

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

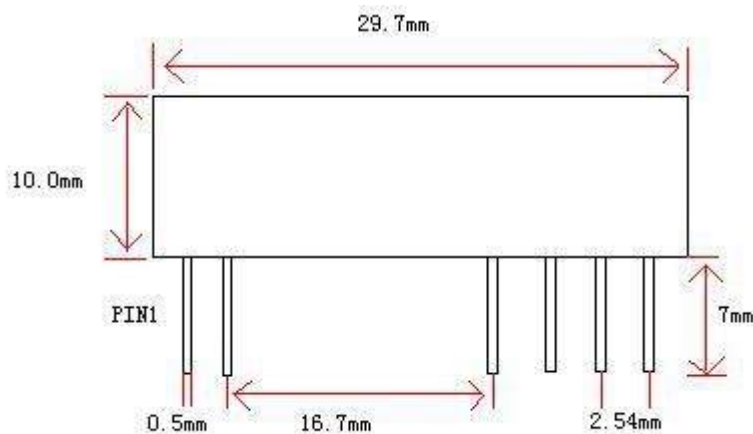
Parameter	Symbol	Condition	Specification			Unit
			Min.	Typical	Max.	
Frequency Range	Fc		433.82	433.92	434.02	MHz
Modulation			ASK			
Receiver Sensitivity		50 Ohm Antenna direct input/1K Kbps		-108		dBm
Receiver Bandwidth				200		KHz
Receiver Turn on time	Ton				9	ms
Working Voltage			2.4	5.0	5.5	V
Working Current	IRC		2.8	2.9	3.0	mA



CY54

Parameter	Symbol	Condition	Specification			Unit
			Min.	Typical	Max.	
Highest Output Voltage when Decoding		RL=500K	5.5			V
Lowest Output Voltage when Decoding					0.5	V
Working Temperature			-30		+85	°C
Image Rejection		423.22Mhz		30		dB

6. MECHANICAL SIZE: (UNIT: mm)



7. ORDER INFORMATION:

CY54-433.92M

CY- ---Receiving Module

54-----Model Number

433.92M---Frequency in 433.92MHz;



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

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