

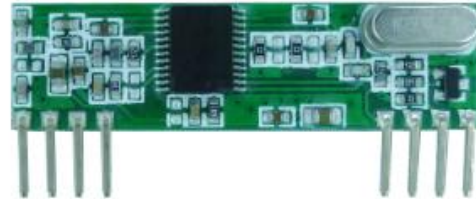


Type: ASK/FSK Super-Heterodyne Receiver Module

Model: CY68-XXX

Description:

The CY68 is an ASK /FSK compatible super heterodyne wireless receiving module. With the adoption of automotive RF wireless data receiver chipset, the module has advantages at high receiving sensitivity. 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. Its superior performance makes many car front-loading manufacturers prefer it as car RKE and BCM receiver module.



Order Information:

Model NO.	Frequency	Modulation
CY68-315-ASK	315 MHz	ASK
CY68-433.92-ASK	433.92 MHz	ASK
CY68-315-FSK	315 MHz	FSK
CY68-433.92-FSK	433.92 MH	FSK

Features:

- Frequency: 315MHz; 433.92MHz (Other frequencies can be customized as needed);
- High sensitivity -118dBm;
- Supply voltage: 3.6V – 5.5V;
- Low power consumption: 6mA; down to 10nA in energy saving mode;
- Modulation: ASK/FSK;
- Operating temperature: -40°C +85°C, work normally even in the severe temperature environment;
- Good selectivity and stray radiation suppression ability, easy to pass the certificates;
- Excellent inhibiting ability for local oscillator radiation: multiple receivers receive signals from one transmitter simultaneously without any mutual interference and influence on range;

Application

- Car anti-theft RKE system
- TPMS
- Wireless security alarm
- Smart home system
- Curtain/ door remote control
- Wireless data transmission
- Data communication system
- Remote control system
- Wireless industrial controller

Pin Description

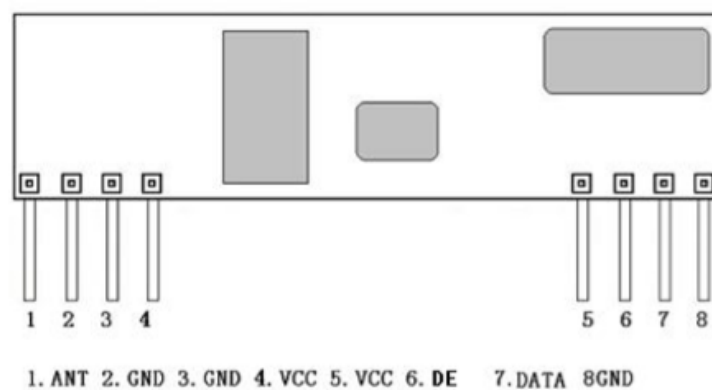


Figure1 CY68 Shape & Pins

Pin Name	Pin Definition
ANT	Antenna In
GND	Ground
GND	Ground
VCC	Positive Supply Power
VCC	Positive Supply Power



DE	Optional output: 1, DATA output(default setting) 2, Battery Saving Mode: (Working mode in High level input) (Sleeping mode in Low level input)
DATA	Data Output
GND	Ground

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	314.90	315	315.10	MHz	Other freq. available
Modulation	ASK/FSK				
Receiver Sensitivity		-117		dBm	BER=10E-2
Data Rate		2.4	9.6	Kbps	Manchester code
Receiving Bandwidth		200		kHz	
Supply Voltage, VDD	3.6	5.0	5.75	V	
Current			6.0	mA	
Decoding Output Max. Voltage	3.5	3.75	5	V	RL=500
Decoding Output Min. Voltage			0.5	V	
Receiving Start Time			5	ms	
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	Other freq. available
Modulation	ASK/FSK				
Receiver Sensitivity		-118		dBm	BER=10E-2
Receiving Bandwidth		200		kHz	
Data Rate		2.4	9.6	Kbps	Manchester code
Supply Voltage, VDD	3.6	5.0	5.75	V	
Current			6.0	mA	
Decoding Output Max. Voltage	3.5	3.75	5	V	RL=500
Decoding Output Min. Voltage			0.5	V	
Receiving Start Time			5	ms	
Operating Temperature	-40		85	°C	

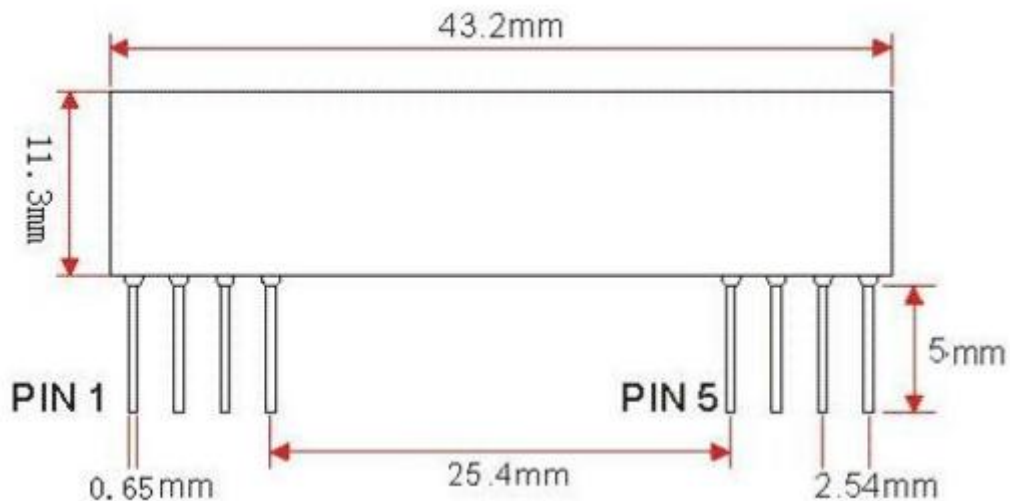
Mechanical Size: (Unit: MM)

Figure2 CY68 Dimension



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

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