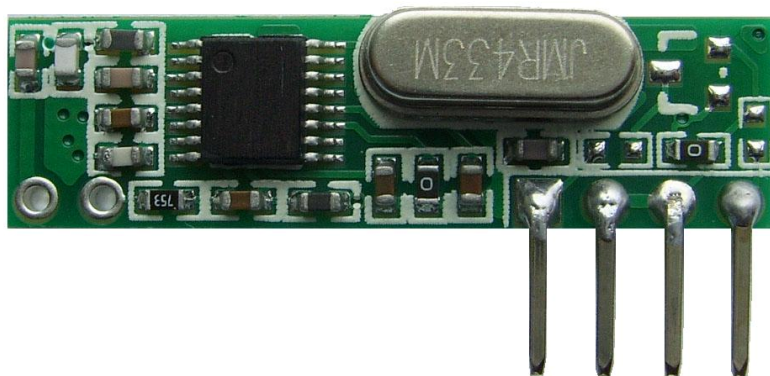




## ASK Superhet Receiver

### General Description:

The RXB13 is a ASK compatible superhet receiver. Which is designed with high sensitivity, long distance, easy use for designing. All receivers are compatible, producing CMOS/TTL Output, and only require connections to Power & Antenna.



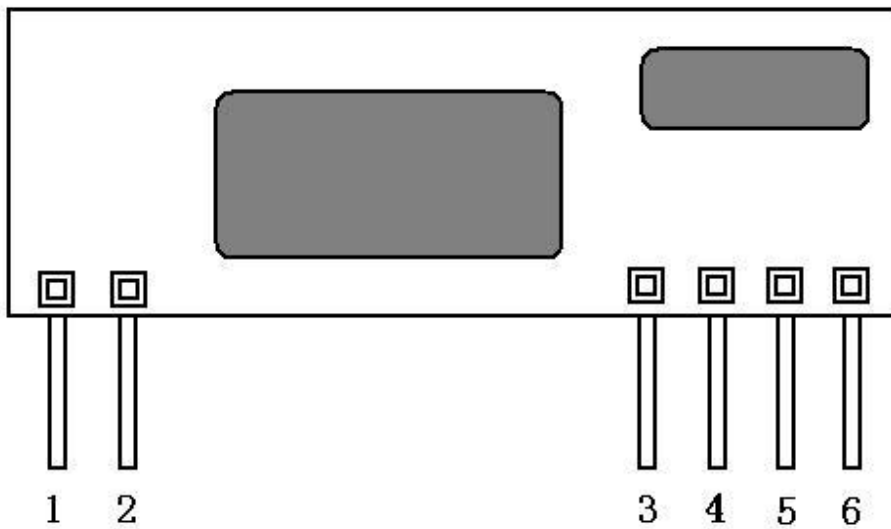
### Product Key Features:

- § High sensitivity  $-111\text{dBm}@433.92\text{ kbps BER}10\text{E}-2$ ;
- § Frequency: 315MHz/433.92MHz(others are available);
- § Low operation voltage:  $VCC= 3.3-5.5\text{ V}$ ;
- § Low Current: 4.8mA. 5V@315MHZ
- § Operating Temperature :  $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ;
- § Small Size with Size of PCB: 30 x 8.5 x 5 MM;



**Product Application:**

- \* Remote gate controls
- \* Remote keyless entry
- \* Car alarm systems
- \* wireless security systems
- \* Automation systems
- \* Remote control systems



1:ANT 2:GND 3:VDD 4:DATA 5:DATA 6:GND



Pin Assignment :

Pin	Name	Function
1	ANT	Antena In
2	GND	Ground
3	VDD	Positive Supply Power
4	DATA	Data connected to MCU
5	DATA	Data connected to MCU
6	GND	Ground

Electrical Characteristics :

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



Characteristics	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Frequency	Fc		314.90	315.00	315.10	MHz
Modulation Mode			ASK			
Receiver Sensitivity		1K Kbps /50 Ω		-111		dBm
Data-rate				200		KHz
Start-up time	Ton				20	mS
Current	IRC		4.6	4.8	5.0	mA
Working Voltage	VCC		3.3	5	5.75	V
Image Rejection						dB
Output High Level		RL=500K	3.5		5	V
Output Low Level L					0.5	V
Working Temperature	TC		-30		+85	°C

Condition: Ta=25°C Vcc=5.0V Frequency=433MHz

Characteristics	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Frequency	Fc		433.82	433.92	434.02	MHz
Modulation Mode			ASK			
Receiver Sensitivity		1K Kbps /50 Ω		-110		dBm
Data-rate				200		KHz
Start-up time	Ton				20	mS
Current	IRC		5	6	6.26	mA
Working Voltage	VCC		4.5	5	5.75	V
Image Rejection						dB
Output High Level		RL=500K	3.5	5	5	V
Output Low Level L					0.5	V
Working Temperature	TC		-30		+85	°C



Mechanical Dimension:

