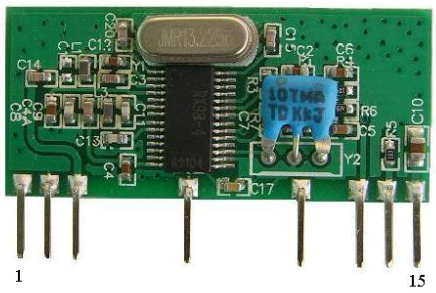
Type: ASK Superheterodyne Receiver

Model: RXB30-XXX



General Discription:

The RXB30 is a ASK superhet receiver based on Xtal, which is designed with high sensitivity, long distance, easy use for designing, it can be able to fulfill most demands of European market specially.

XXX:Customer specifinedf requency (315, or 433.92MHz)

Key Features:

§ High sensitivity -110dBm@433.92 1kbps BER10E-2;

§ Frequancy: 315MHz/433.92MHz(others are available);

§ Supply voltage: VCC= 5 V ±10%;

§ Low Current：4.6mA;

§ 10.7MHz IF filter;

§ Operating Temperature：-40℃~+85℃;

§ Fully integrated VCO and PLL Synthesiser;

§ European pin-out.

Applications:

- Garage door and gate openers
- Remote controls
- Remote fan and light control
- Smart home system
- Alarm and security system

Absolute Maximum Rating:

SYMBOL	PARAMETER	CONDITION	UNIT	RATING
Vcc	Supply voltage		V	-0.3～6.5
Topr	Operating temperature		℃	-40～+85
Ts	Soldering Temperature	10 sec	℃	350 ℃
Tstg	Storage temperature		℃	-60～+125

Electrical Parameters:

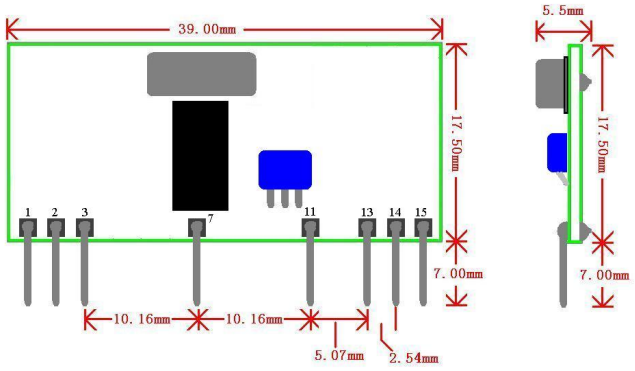
Condition: Ta=25℃ Vcc=5.0V Frequency=315MHz

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		-110		dBm
Data-rate				2	10	Kbps
Start-up time	Ton				9	mS
Current	IRC				4.6	mA
Working Voltage	VCC		4.5	5	5.75	V
Image Rejection		336.4MH		20		dB
Output High Level		RL=500K	3.5	3.75	5	V
Output Low Level L					0.5	V
Working Temperature	TC		-40		+85	℃

Condition: Ta=25℃ Vcc=5.0V Frequency=433.92MHz

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		-111		dBm
Data-rate				2	10	Kbps
Start-up time	Ton				9	mS
Current	IRC				4.6	mA
Working Voltage	VCC		4.5	5	5.75	V
Image Rejection		412.52MHz		20		dB
Output High Level		RL=500K	3.5	3.75	5	V
Output Low Level L					0.5	V
Working Temperature	TC		-40		+85	℃

Pin Description:



Conection:

Pin 1	**N.C.**	Not connected.
Pin 2-7	**Ground**	GND
Pin 3	**Antenna**	Antenna input, impedance 50 ohm.
Pin 11	**N.C.**	Not connected.
Pin 13	**RSSI Out – Test point**	RSSI output proportional to the amplitude of the input signal.
Pin 14	**Data output**	Data output from the receiver.
Pin 15	**+Vs**	Positive Voltage supply.