

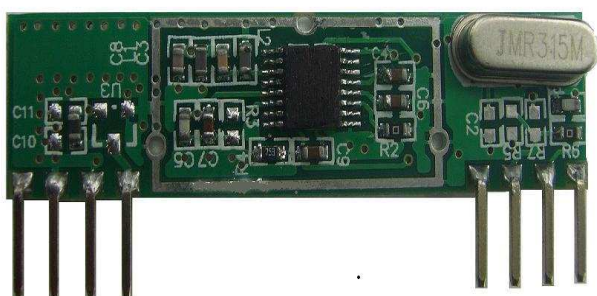


SHENZHEN JMRTech CO., LTD.
RF Superheterodyne receiver

RXB6-XXX-V

ASK Superhet Receiver

General Description:



The RXB6-XXX is a ASK compatible superhet receiver. Which is designed with high sensitivity, long distance, easy use for designing.

XXX: Customer specified frequency (315, 433.92MHz or others)
V: version no.
V1.0 conversion level version
V2.0 industrial level version

Product Key Features:

- § Frequency: 315 / 433.92M / 868.35M Hz (others are available);
- § High sensitivity -110dBm@433.92 1kbps BER10E-2;
- § supply voltage: VCC= 3.3 to 5.5 V;
- § IF band: 230KHz;
- § low power consumption: 3.9mA@315M, 6mA @433.92M, 9mA@868.35M;
- § Wide operating temperature;
- § Excellent selectivity and noise rejection ;
- § Easy for application;
- § Analog RSSI Output (only for V2.0) ;
- § SIL (single in line) small package



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Product Application:

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

Electrical Characteristics:

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

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	300	315	930	MHz	Others available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.058	2.4	7.2	KBaud	Manchester code
Supply Voltage, VDD	3.3		5.5	V	DC
Current		3.9		mA	
Operating Temperature	-40		+85	°C	

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

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	300	433.92	930	MHz	Others available
Receiver Sensitivity		-110		dBm	BER=10E-2
Data Rate	0.058	2.4	10.0	KBaud	Manchester code
Supply Voltage, VDD	3.3		5.5	V	DC
Current		6.0	6.0	mA	
Operating Temperature	-40		+85	°C	



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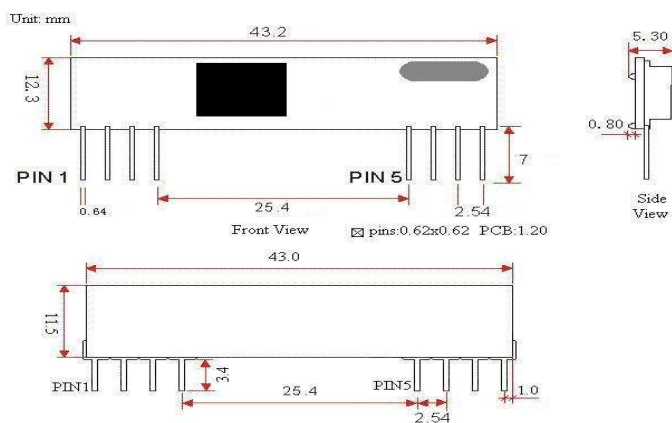
RF Superheterodyne receiver

Condition: Ta=25℃ Vcc=5.0V Frequency=868.35MHz

Parameter	Specification			Unit	Condition
	Min	Typ	Max		
Frequency Range	850	868.35	950	MHz	Others available
Receiver Sensitivity		-108	-109	dBm	BER=10E-2
Data Rate	0.058		10.0	KBaud	Manchester code
Supply Voltage, VDD	3.0	5.0	5.5	V	DC
Current			9 .0	mA	
Operating Temperature	-40		+85	℃	

Note: V1.1 not support for 868.35MHz

Mechanical Dimentions:



Pin Discription:

Pin	Name	Function
1	ANT	Antena In
2	GND	Ground
3	GND	Ground
4	VDD	Positive Supply Power
5	VDD	Positive Supply Power
6	DE	Option output: 1, DATA output(default) 2, Battery Saveing Mode
7	DATA	Data Output
8	GND	Ground

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<http://www.jmrth.com>