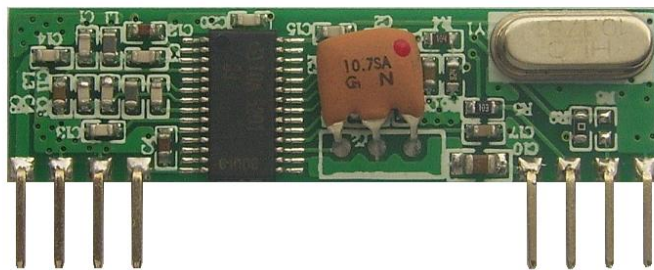




ASK Superhet Receiver

General Description:

The RXB2 is a ASK compatible superhet receiver. Which is designed with high sensitivity, long distance, easy use for designing.



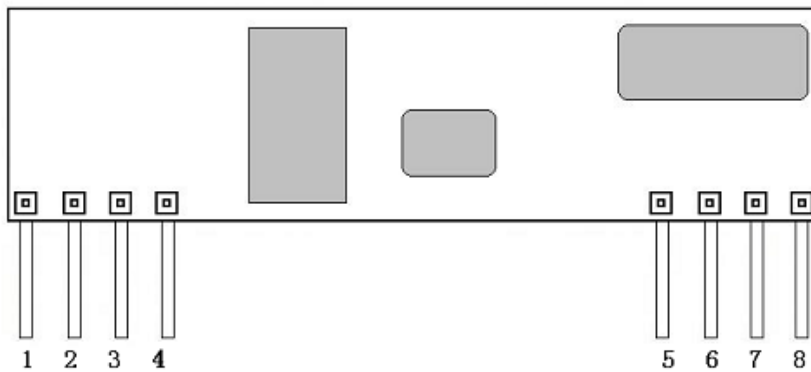
Product Key Features:

- § High sensitivity $-110\text{dBm}@433.92\text{ kbps BER}10\text{E}-2$;
- § Frequency: $315\text{MHz}/433.92\text{MHz}$ (others are available);
- § Low operation voltage: $VCC= 5\text{ V} \pm 10\%$;
- § Low Current: 4.6mA .
- § Power down mode with very low supply current (100nA typ)
- § Operating Temperature : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$;
- § Fully integrated VCO and PLL Synthesiser
- § Date slicer with self-adjusting threshold



Product Application:

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



1. ANT 2. GND 3. GND 4. VCC 5. VCC 6. DATA 7. SHUT 8GND

Pin Assignment :



Pin	Name	Function
1	ANT	Antena In
2	GND	Ground
3	GND	Ground
4	VCC	Positive Supply Power
5	VCC	Positive Supply Power
6	DATA	Data connected to MCU
7	SHUT	Shutdown logic control input
8	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		-110		dBm
Data-rate				200		KHz
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	°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		-111		dBm
Data-rate				200		KHz
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	°C



Mechanical Dimension:

