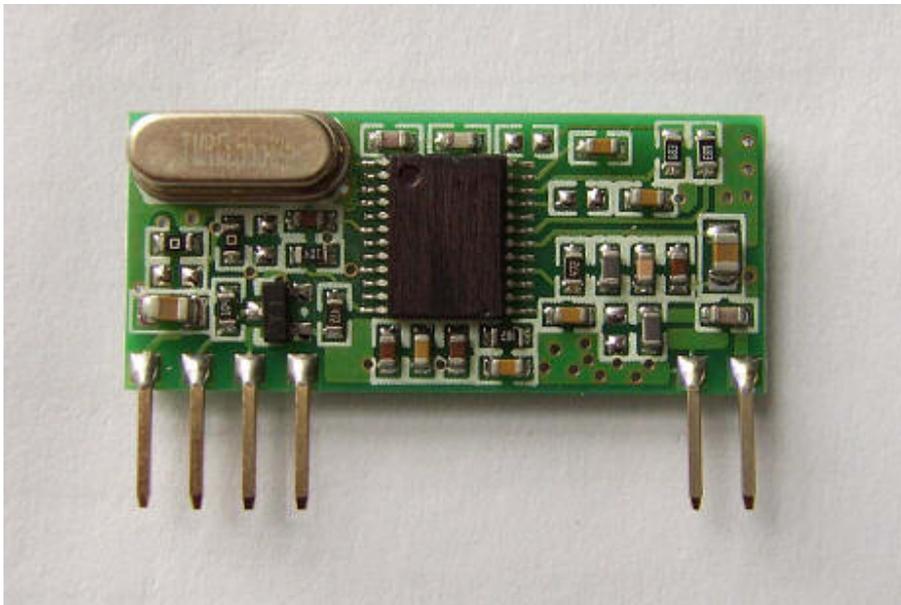




ASK/FSK Superhet Receiver

General Description:

The RXB13 is a ASK/FSK compatible superhet receiver. Which is designed with high sensitivity, long distance, easy use for designing.



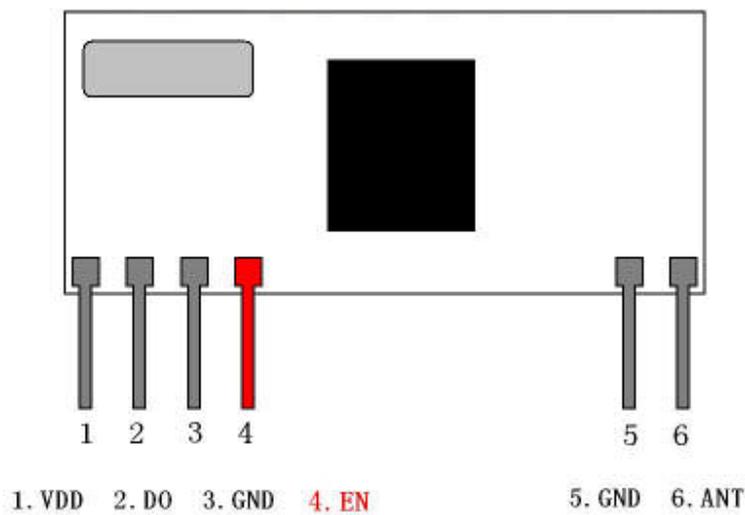
Product Key Features:

- § High sensitivity -118dBm ;
- § Frequency: $315\text{MHz}/433.92\text{MHz}$, ASK/FSK;
- § Low operation voltage: $V_{CC} = 3.3\text{--}5.5\text{ V}$;
- § Low Current: 4.6Ma
- § Consumption Current during Battery saving mode: 10nA
- § Operating Temperature : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$;



Product Application:

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





Pin Assignment :

| Pin | Name | Function |
|-----|------|-----------------------|
| 1 | VDD | Positive Supply Power |
| 2 | DO | Data |
| 3 | GND | Ground |
| 4 | EN | Battery saving mode |
| 5 | GND | Ground |
| 6 | ANT | Antena In |

Electrical Characteristics :

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



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RXB15

| Characteristics | Symbol | Condition | Value | | | Unit |
|----------------------|--------|---------------|---------|--------|--------|------|
| | | | Min | Typ | Max | |
| Frequency | Fc | | 314.90 | 315.00 | 315.10 | MHz |
| Modulation Mode | | | ASK/FSK | | | |
| Receiver Sensitivity | | 1K Kbps /50 Ω | | -117 | | dBm |
| Data-rate | | | | 200 | | KHz |
| Start-up time | Ton | | | | 9 | mS |
| Current | IRC | | | | 4.6 | mA |
| Working Voltage | VCC | | 4.53 | 5 | 5.75 | V |
| Image Rejection | | 336.4MHz | | 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/FSK | | | |
| Receiver Sensitivity | | 1K Kbps /50 Ω | | -118 | | dBm |
| Data-rate | | | | 200 | | KHz |
| Start-up time | Ton | | | | 9 | mS |
| Current | IRC | | 4.5 | 5 | 5.75 | mA |
| Working Voltage | VCC | | | | 4.6 | V |
| Image Rejection | | | | | | dB |
| Output High Level | | RL=500K | 3.5 | 5 | 5 | V |
| Output Low Level L | | | | | 0.5 | V |
| Working Temperature | TC | | -40 | | +85 | °C |

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Mechanical Dimension:

