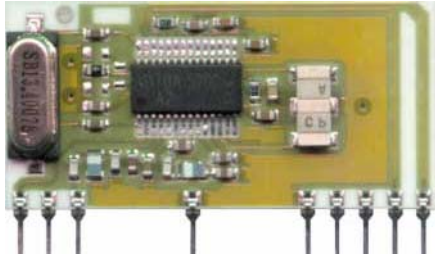


RRFQ1-XXX

FSK Superhet Receiver with Crystal Oscillator

**General description**

The RRFQ1-XXX is a FSK superhet data receiver with PLL synthesizer and crystal oscillator.

Receiver Frequency: 315, 433.9, 868.35 MHz

IF Frequency: 10.7MHz

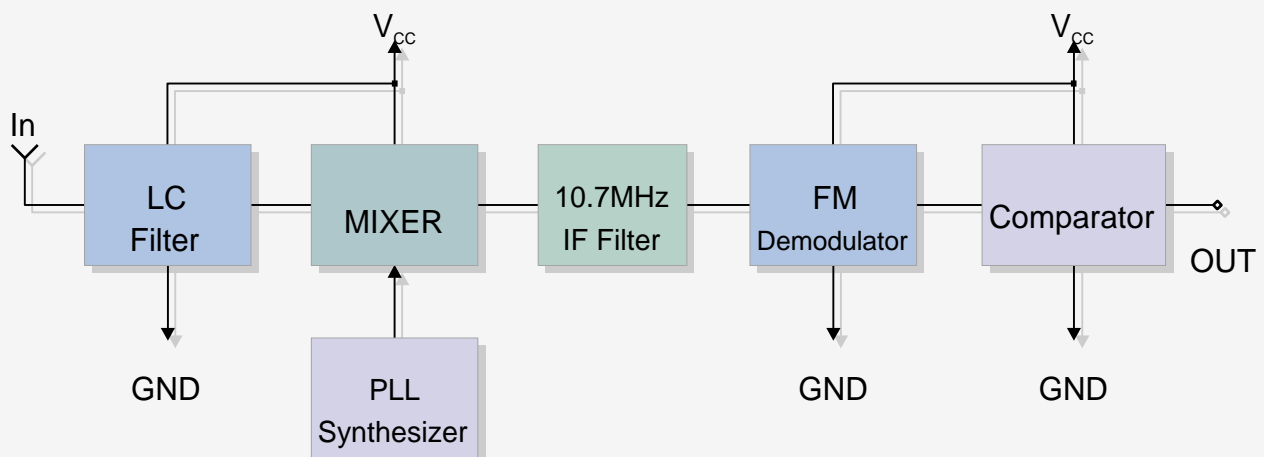
Typical sensitivity: -102 dBm

Supply current: 5.7 mA (typ)

XXX: custom-specified working frequency
(315, 433.92, 868.35 MHz)

Applications

- Wireless security systems
- Car Alarm systems
- Remote gate controls
- Sensor reporting

BLOCK DIAGRAM

Electrical Characteristics

Ta = 25°C unless otherwise specified

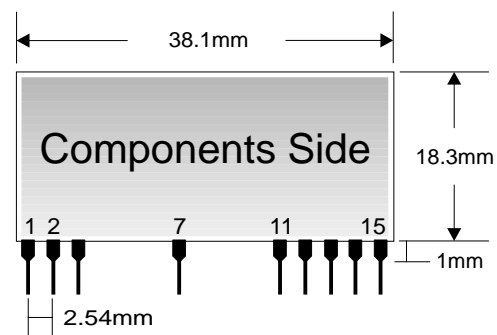
| CHARACTERISTICS | | MIN | TYP | MAX | UNIT |
|----------------------|--------------------------------------|---------------------|--------------------|-----|--------|
| V _{CC} | Supply Voltage | 4.5 | 5 | 5.5 | VDC |
| I _S | Supply Current | | 5.7 | 6.8 | mA |
| I _{STANDBY} | Standby Supply Current (PD = Low) | | | 100 | nA |
| F _R | Receiver Frequency | | 315/433.9/868.35 | | MHz |
| | RF Sensitivity | | -102 / -102 / -100 | | dBm |
| B _w | -3dB Bandwidth | | ±150 | | KHz |
| | Max Data Rate | 0.3 | | 4.8 | Kbit/s |
| | Level of Emitted Spectrum | | | -70 | dBm |
| | Turn on Time (PD → Stable Data) | | | 5 | msec |
| V _{ol} | Low-Level Output Voltage (I=10uA) | | | | V |
| V _{oh} | High-Level Output Voltage (I=-200uA) | V _{CC} - 1 | | | V |
| T _{OP} | Operating Temperature Range | -25 | | +80 | °C |

Pin Description

| | | | |
|----|-----------------|----|-----------------|
| 1 | V _{CC} | 12 | NC |
| 2 | GND | 13 | RRSI |
| 3 | IN | 14 | OUT |
| 7 | GND | 15 | PD (Power Down) |
| 11 | GND | | |

PD = 0V ---> RX OFF (I_{Standby} = 100nA)
 max) PD = 5V ---> RX ON

Mechanical Dimensions



TYPICAL APPLICATION

