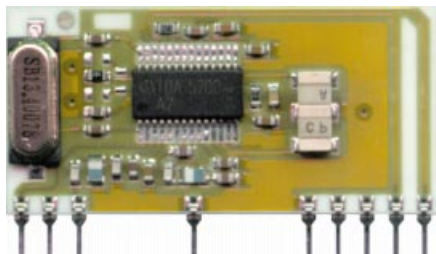


# RRFQ1-XXX

## 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

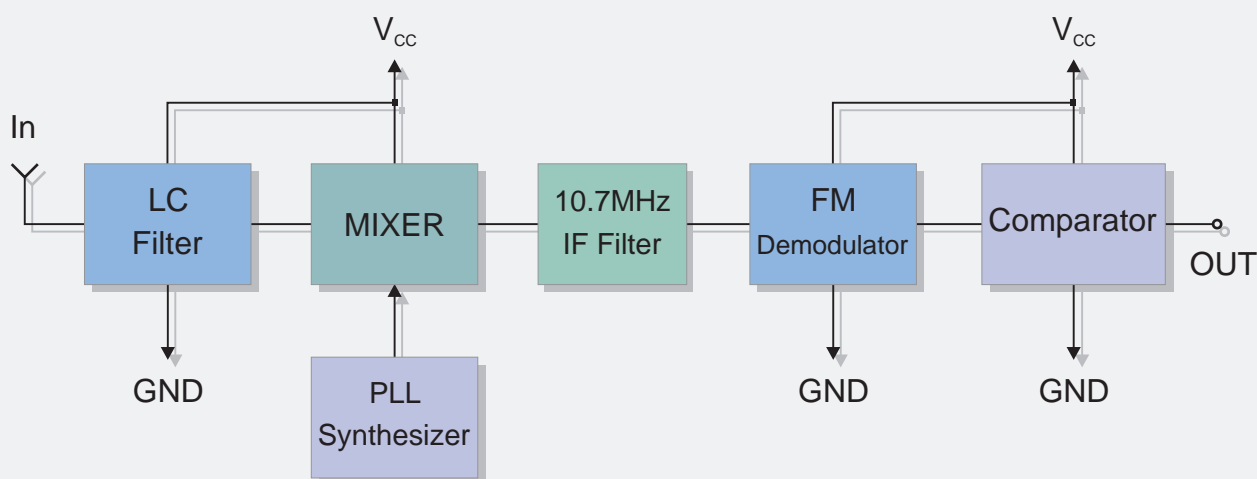
Supply current: 5.7 mA (typ)

**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 <sub>CC</sub>	Supply Voltage	4.5	5	5.5	VDC
I <sub>S</sub>	Supply Current		5.7	6.8	mA
I <sub>STANDBY</sub>	Standby Supply Current (PD = Low)			100	nA
F <sub>R</sub>	Receiver Frequency		433.92		MHz
	RF Sensitivity (100% AM)		-102		dBm
B <sub>w</sub>	-3dB Bandwidth		±200		KHz
	Max Data Rate			4.8	Kbit/s
	Level of Emitted Spectrum			-70	dBm
	Turn on Time (PD → Stable Data)			5	msec
V <sub>ol</sub>	Low-Level Output Voltage (I=10uA)			0.8	V
V <sub>oh</sub>	High-Level Output Voltage (I=-200uA)	V <sub>CC</sub> - 1			V
T <sub>OP</sub>	Operating Temperature Range	-25		+80	°C

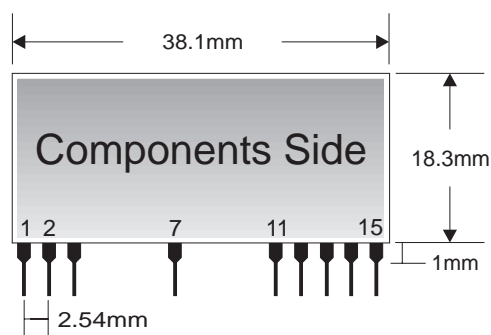
## Pin Description

1	V <sub>CC</sub>	12	NC
2	GND	13	NC
3	IN	14	OUT
7	GND	15	PD (Power Down)
11	GND		

PD = 0V ---> RX OFF (I<sub>Standby</sub> = 100nA max)

PD = 5V ---> RX ON

## Mechanical Dimensions



## TYPICAL APPLICATION

