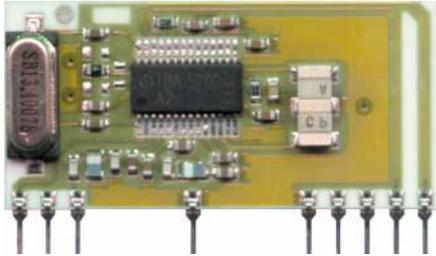


RRFQ1-XXX

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

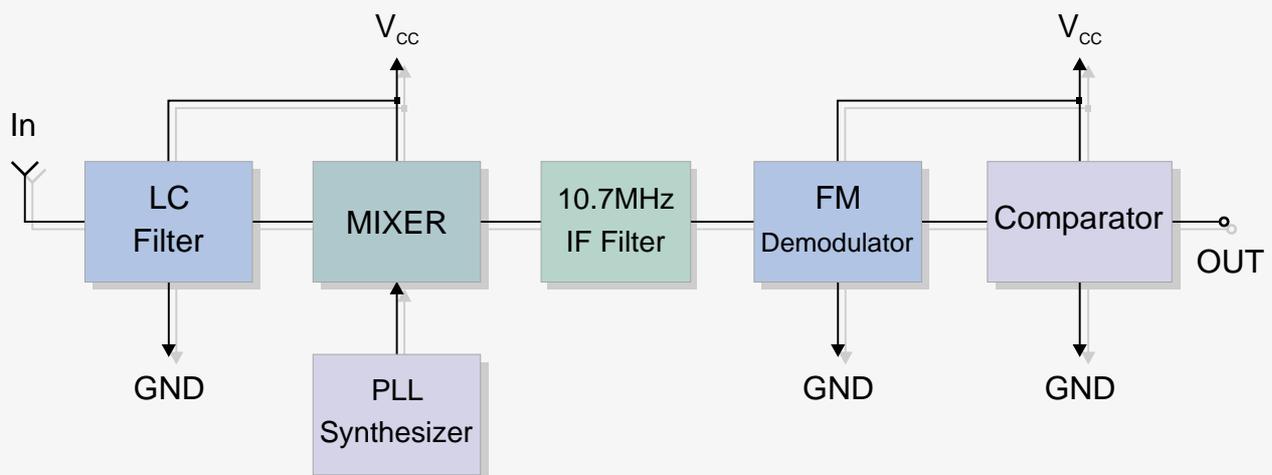
Supply current: 5.7 mA (typ)

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)			0.8	V
V _{oh}	High-Level Output Voltage (I=-200uA)	V _{CC} - 1			V
T _{OP}	Operating Temperature Range	-25		+80	°C

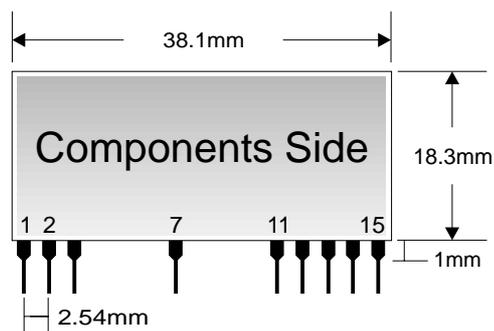
Pin Description

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

