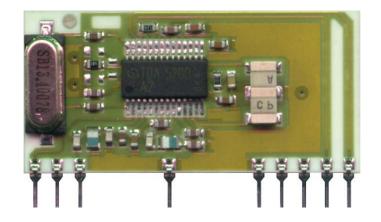


RRFQ1-XXX

FSK Superhet Receiver with Crystal Oscillator



General description

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

Receiver Frequency: 315, 433.9, 868.35 MHz

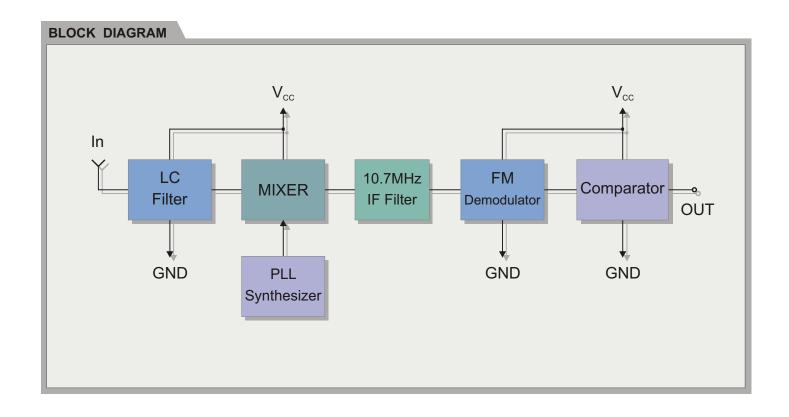
IF Frequency: 10.7MHz

Typical sensitivity: -102 dBm Supply current: 5.7 mA(typ)

XXX: custom-specified working frequency (315, 433.92, 434.42, 868.3, 915, 920 MHz)

Applications

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



Electrical Characteristics

Ta = 25°C unless otherwise specified

	CHARACTERISTICS	MIN	TYP	MAX	UNIT
V_{cc}	Supply Voltage	4.5	5	5.5	VDC
Is	Supply Current		5.7	6.8	mA
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
	Data Rate	0.3		4.8	Kbit/s
	Level of Emitted Spectrum			-70	dBm
	Turn on Time (PD \rightarrow Stable Data)			5	msec
V_{ol}	Low-Level Output Voltage (I=10uA)			8.0	V
V_{oh}	High-Level Output Voltage (I=-200uA)	V _{cc} - 1			V
T _{OP}	Operating Temperature Range	-25		+80	°C

Pin Description

V_{cc}

RSSI Value

RF IN (dBm)

-120

-110

-100

-90 -80

-70

-60

-50

-40

RSSI (V)

1.20

1.32

1.50 1.78

2.06

2.35

2.62

2.72

2.75

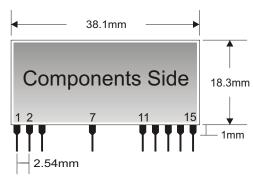
	CC		
2	GND		
3	IN		
7	GND		

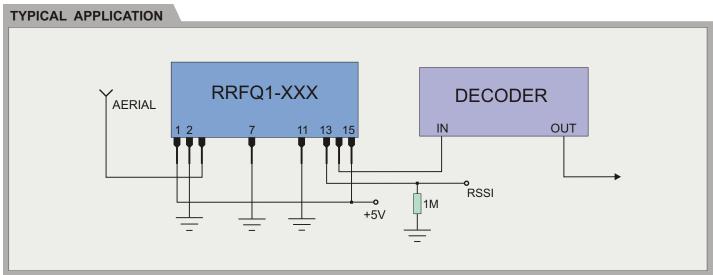
- f GND
- 12 NC
- 13 RSSI
- 14 OUT

15 PD (Power Down)

PD = 0V ---> RX OFF PD = 5V ---> RX ON

Mechanical Dimensions





Telecontrolli Srl has an on going policy to improve the performance and reliability of their products; we therefore reserve the right to make changes without notice. The information contained in our data sheets is believed to be accurate, however we do not assume any liability arising from the application or use of any product or circuit.



Web Site: www.telecontrolli.com

HEAD OFFICE & PLANT

SALES OFFICE

Via Nazionale delle Puglie, 177 80026 CASORIA (NA), Italy Tel: +39 081 7599033 Fax: +39 081 7596494 sales @ telecontrolli.com