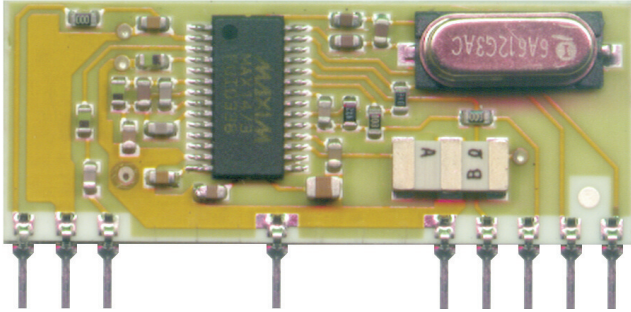


RRQ4-XXX- V

AM Superhet Receiver with Crystal Oscillator
50 dB RF Image Rejection



General description

The RRQ4-XXX is an AM superhet data receiver with PLL synthesizer and crystal oscillator.

A squelch function is implemented to reduce output "noise" when no transmitter is active.

Receiver Frequency: 315 / 433.92 MHz

IF Frequency: 10.7MHz

Typical sensitivity: -107 dBm

RF Image Rejection: 50 dB

Supply current: 6 mA (typ)

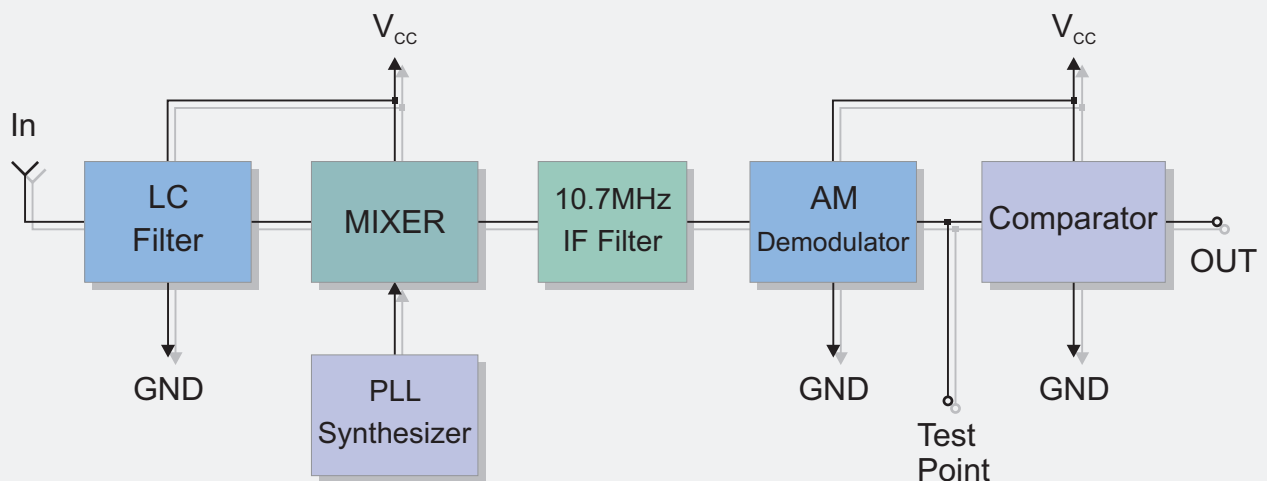
Applications

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

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

V: available supply voltage 3.3V or 5V

BLOCK DIAGRAM



Electrical Characteristics

Ta = 25°C unless otherwise specified

CHARACTERISTICS		MIN	TYP	MAX	UNIT
V _{CC}	Supply Voltage (5V model)	4.5	5	5.5	VDC
	Supply Voltage (3.3V model)	3.0	3.3	3.6	VDC
I _S	Supply Current		6	7	mA
F _R	Receiver Frequency		315/433.9		MHz
	RF Sensitivity (100% AM)		-107		dBm
B _w	-3dB Bandwidth		±150		KHz
	Max Data Rate			4.8	Kbit/s
	Level of Emitted Spectrum			-70	dBm
V _{ol}	Low-Level Output Voltage (RL = 5K)			0.4	V
V _{oh}	High-Level Output Voltage (RL = 5K)	V _{CC} - 0.4			V
T _{OP}	Operating Temperature Range	-25		+80	°C

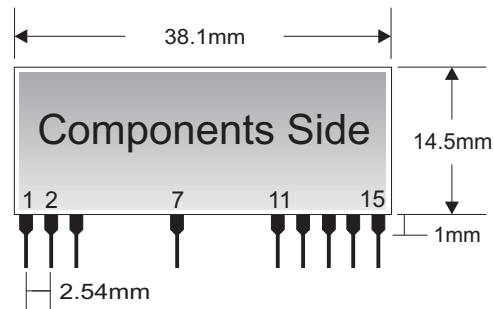
Pin Description

1	V _{CC}	12	V _{CC}
2	GND	13	Test Point
3	IN	14	OUT
7	GND	15	PD (Power Down)
11	GND		

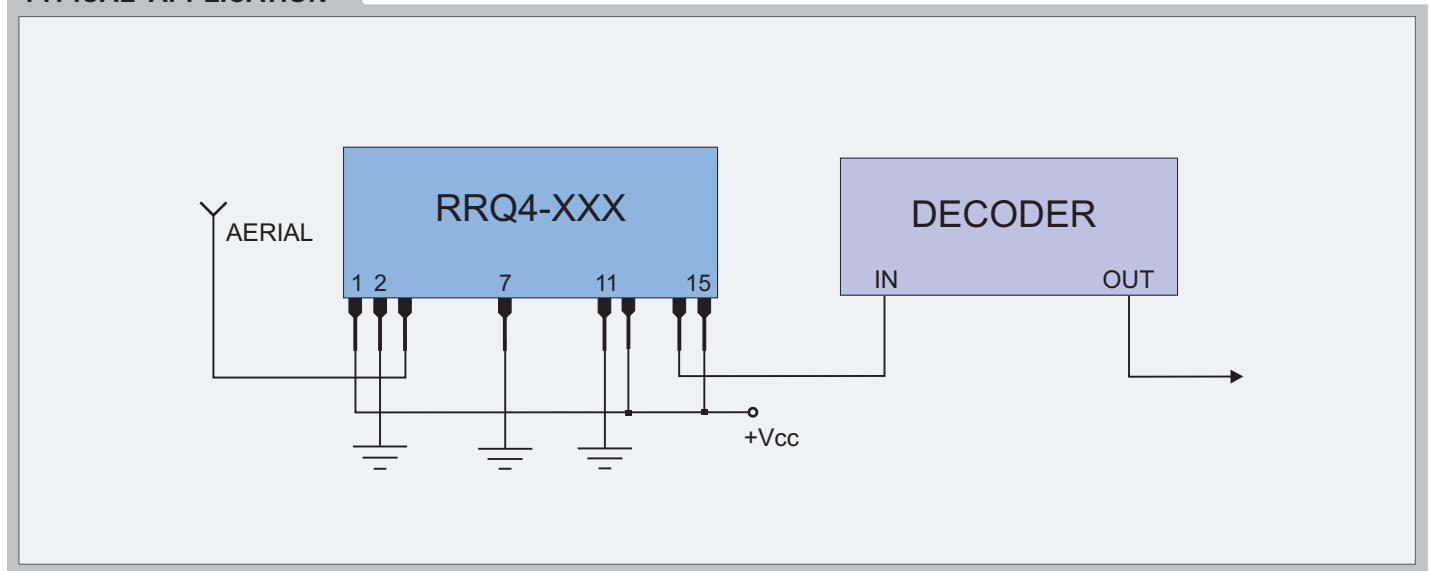
PD = 0V ---> RX OFF (I_{standby} = 5uA max)

PD = V_{CC} ---> RX ON

Mechanical Dimensions



TYPICAL APPLICATION



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

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

SALES OFFICE

sales @ telecontrolli.com