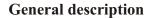
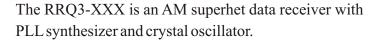
#### **Superheterodyne Receiver**



## **RRQ3-XXX**

AM Superhet Receiver with Crystal Oscillator and Squelch Circuit





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

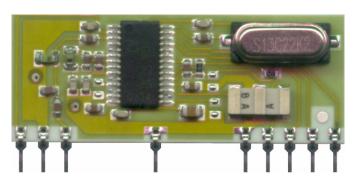
Optional Metal Shield (RRQ3-XXX-S)

Receiver Frequency: 315 / 433.92 / 868.35 MHz

IF Frequency: 10.7MHz

Typical sensitivity: -107 dBm

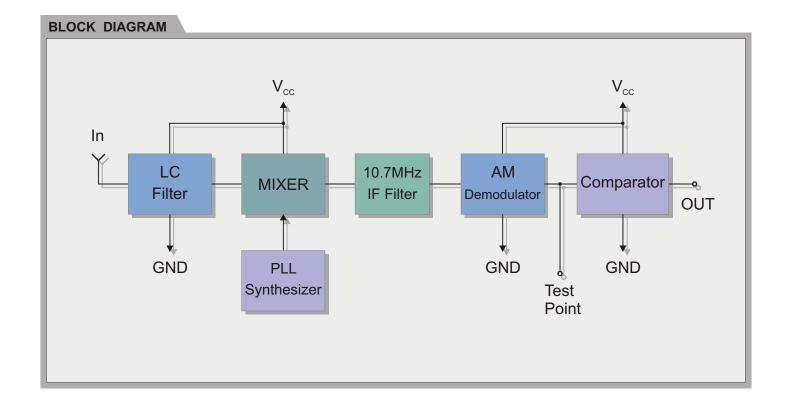
Supply current: 5 mA(typ)



#### **Applications**

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

# **XXX:** custom-specified working frequency (315, 433.92, 434.5, 868.30, 868.35, 868.95, 915 MHz)



#### **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	6	mA
$F_{R}$	Receiver Frequency		315/433.9/868.35		MHz
	RF Sensitivity (100% AM)		-107 / -107 / -103		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 (I=10uA)			0.8	V
$V_{oh}$	High-Level Output Voltage (I=-200uA)	V <sub>cc</sub> - 1			V
$T_{OP}$	Operating Temperature Range	-25		+80	°C

### **Pin Description**

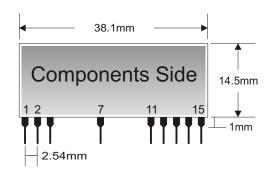
1	$V_{cc}$	12	$V_{cc}$
2	GND	13	Test Point
3	IN	14	OUT
7	GND	15	PD (Power Down)

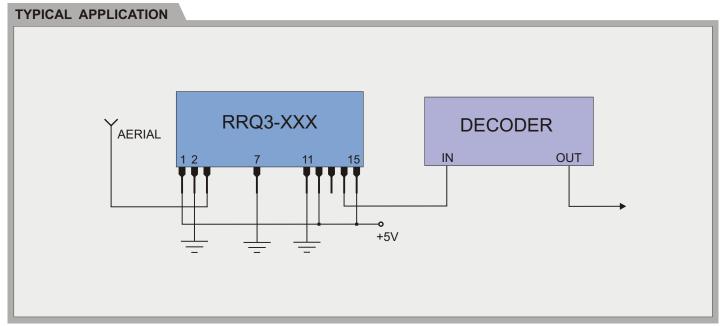
11 GND

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

PD = 5V ---> RX ON

#### **Mechanical Dimensions**





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