



RRQ5-XXX

ASK Superhet Receiver with Front End SAW Filter - Optional Metal Shield



General description

The RRQ5-XXX is an ASK superhet data receiver with PLL synthesizer, crystal oscillator and Front End SAW Filter.

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

EMI immunity improved by a metal shield (**RRQ5-XXX-S** model)

Typical sensitivity: -110 dBm

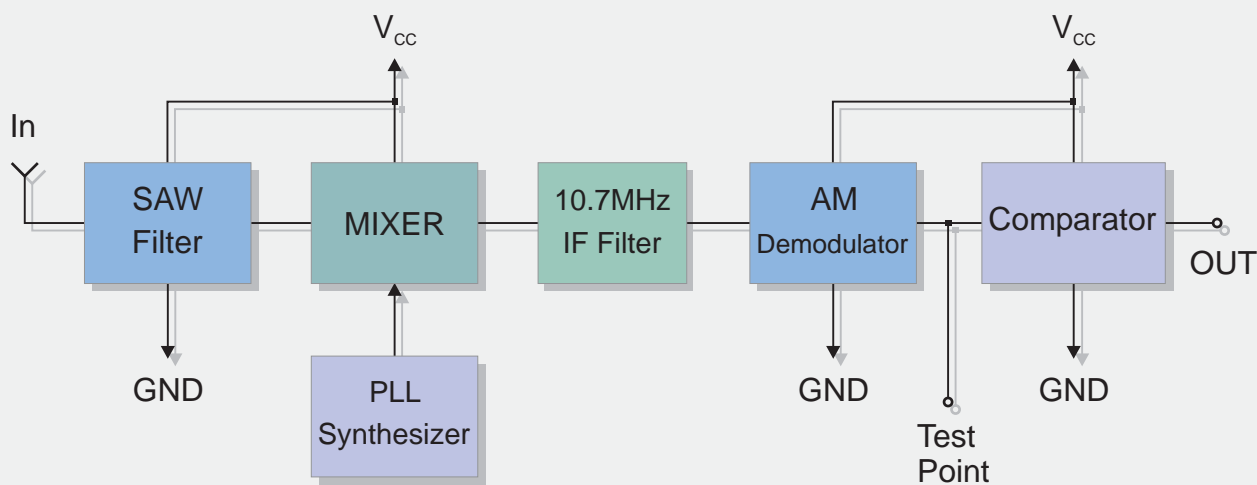
Supply current: 6 mA (typ)

Applications

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

XXX: custom-specified working frequency (433.92 MHz)

BLOCK DIAGRAM



Electrical Characteristics

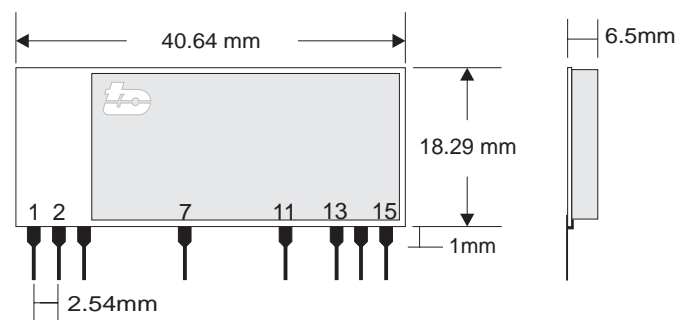
Ta = 25°C unless otherwise specified

CHARACTERISTICS		MIN	TYP	MAX	UNIT
V _{CC}	Supply Voltage	4.5	5	5.5	VDC
I _S	Supply Current		6	7	mA
F _R	Receiver Frequency		433.92		MHz
	RF Sensitivity (100% AM)	-108	-110		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 _{CC} - 1			V
T _{OP}	Operating Temperature Range	-25		+80	°C

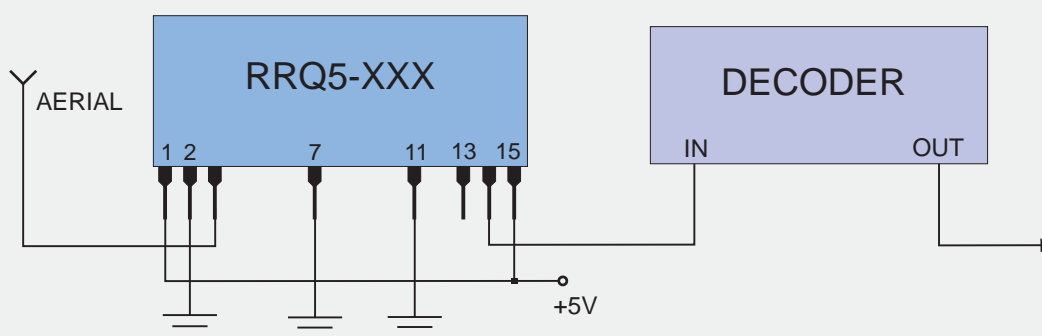
Pin Description

1	V _{CC}
2	GND
3	IN
7	GND
11	GND
13	Test Point
14	OUT
15	V _{CC}

Mechanical Dimensions



TYPICAL APPLICATION



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