

# RRS2-XXX

## AM Superhet Receiver

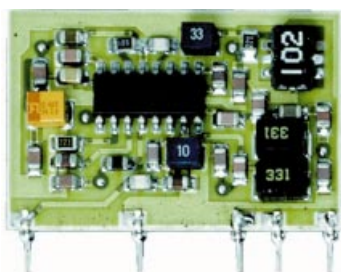
### General description

The RRS2-XXX is an AM superhet data receiver with LC Front End Filter.

IF Frequency: 500KHz

Typical sensitivity: -102dBm (1.8uVrms)

Supply current: 3.7 mA (typ)

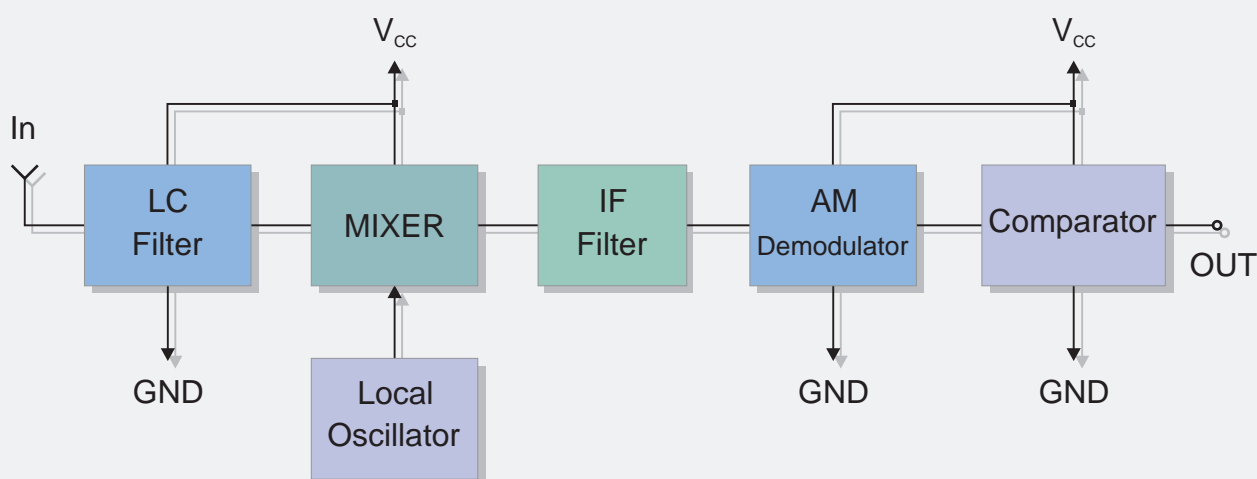


**XXX:** custom-specified working frequency  
(315, 418, 433.92 MHz)

### Applications

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

### BLOCK DIAGRAM



## Electrical Characteristics

Ta = 25°C unless otherwise specified

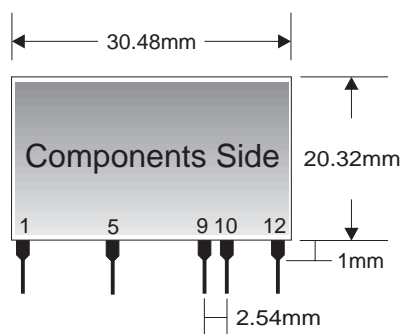
CHARACTERISTICS		MIN	TYP	MAX	UNIT
V <sub>CC</sub>	Supply Voltage	4.5	5	5.5	VDC
I <sub>S</sub>	Supply Current		3.7	5	mA
F <sub>R</sub>	Receiver Frequency		315/418/433.92		MHz
F <sub>IF</sub>	IF Frequency		500		KHz
	Max Data Rate			3	KHz
	RF Sensitivity (100% AM)*		-102		dBm
	Level of Emitted Spectrum		-50		dBm
V <sub>ol</sub>	Low-Level Output Voltage (I=-200uA)			0.6	V
V <sub>oh</sub>	High-Level Output Voltage (I=10uA)	V <sub>CC</sub> - 0.5			V
T <sub>OP</sub>	Operating Temperature Range	-25		+80	°C

\* Best Performances are obtained utilizing a transmitted coding with a DC average value independent of the data content (BiPhase Manchester coding)

## Pin Description

1	IN
5	GND
9	GND
10	VCC
12	OUT

## Mechanical Dimensions



## TYPICAL APPLICATION

