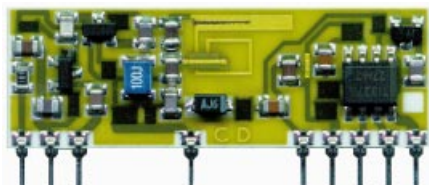


## RR8-XXX

3V Supply Voltage - Very Low Consumption  
Super Regenerative Radio Receiver



### General description

The RR8-XXX is a super regenerative data receiver.

Sensitivity typically exceeds -90dBm when matched to 50 ohm.

Typical current consumption is 0.5 mA.

Low Turn-on Time (150 msec).

It shows high frequency stability also in presence of mechanical vibrations, manual handling and in a wide range of temperature.

The frequency accuracy is very high thanks to laser trimming process. **PATENTED.**

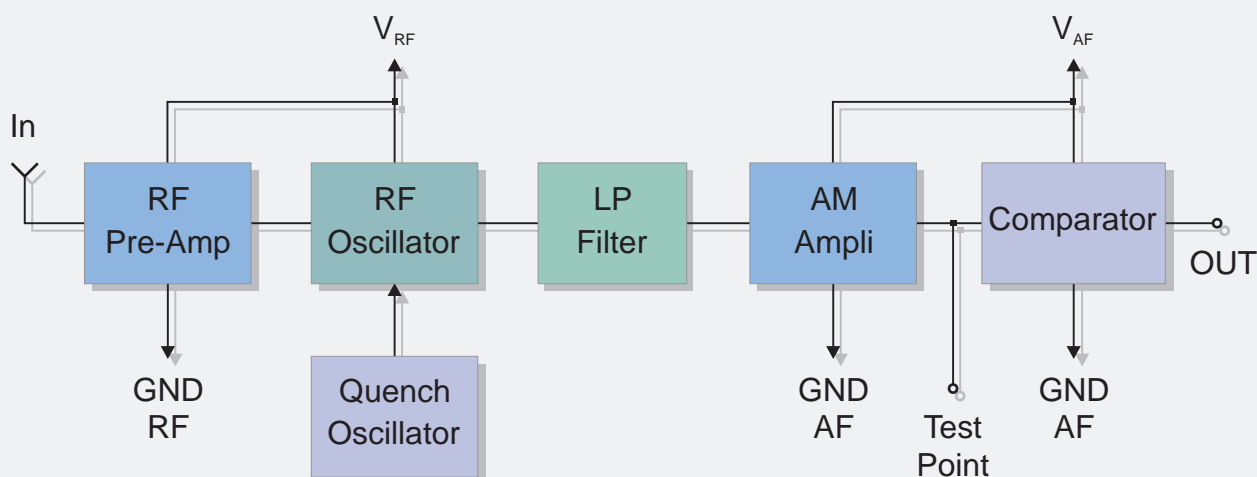
**XXX:** custom-specified working frequency  
(200 ÷ 450 MHz)

Standard European and U.S. frequencies (315MHz, 418MHz, 433.92MHz) are readily available from stock.

### Applications

- Battery powered portable devices
- Home security systems
- Car Alarm systems
- Remote gate controls
- Sensor reporting

### BLOCK DIAGRAM



## Electrical Characteristics

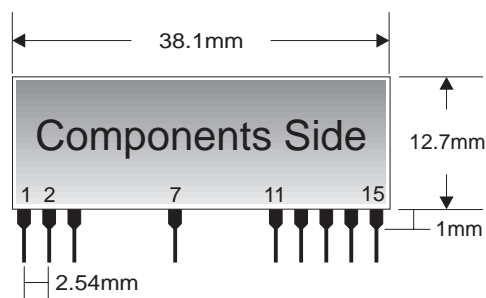
Ta = 25°C unless otherwise specified

CHARACTERISTICS		MIN	TYP	MAX	UNIT
$V_{RF}, V_{AF}$	Supply Voltage	2.7	3	3.3	VDC
$I_S$	Supply Current		0.5		mA
$F_W$	Working Frequency	280		450	MHz
	Tuning Tolerance		$\pm 0.2$	$\pm 0.5$	MHz
$B_W$	-3dB Bandwidth		$\pm 2$	$\pm 3$	MHz
	Max Data Rate			2	KHz
	RF Sensitivity (100% AM)		-90		dBm
	Level of Emitted Spectrum		-65	-60	dBm
$T_{ON}$	Turn-on Time		150		msec
$T_{OP}$	Operating Temperature Range	-25		+80	°C

## Pin Description

1	RF +V <sub>cc</sub>	9	NC
2	RF GND	10	NC
3	IN	11	AF GND
4	NC	12	AF +V <sub>cc</sub>
5	NC	13	Test Point
6	NC	14	OUT
7	RF GND	15	AF +V <sub>cc</sub>
8	NC		

## Mechanical Dimensions



## TYPICAL APPLICATION

