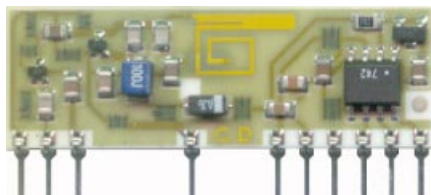


## RR11-XXX

Very Low Consumption Super Regenerative  
Radio Receiver - Fast Turn-On Time



### General description

The RR11-XXX is a super regenerative data receiver. Sensitivity typically exceeds  $-95\text{dBm}$  when matched to  $50\ \Omega$ .

Typical current consumption is  $300\ \mu\text{A}$ .

Low Turn-on Time ( $150\ \text{msec}$ ).

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.**

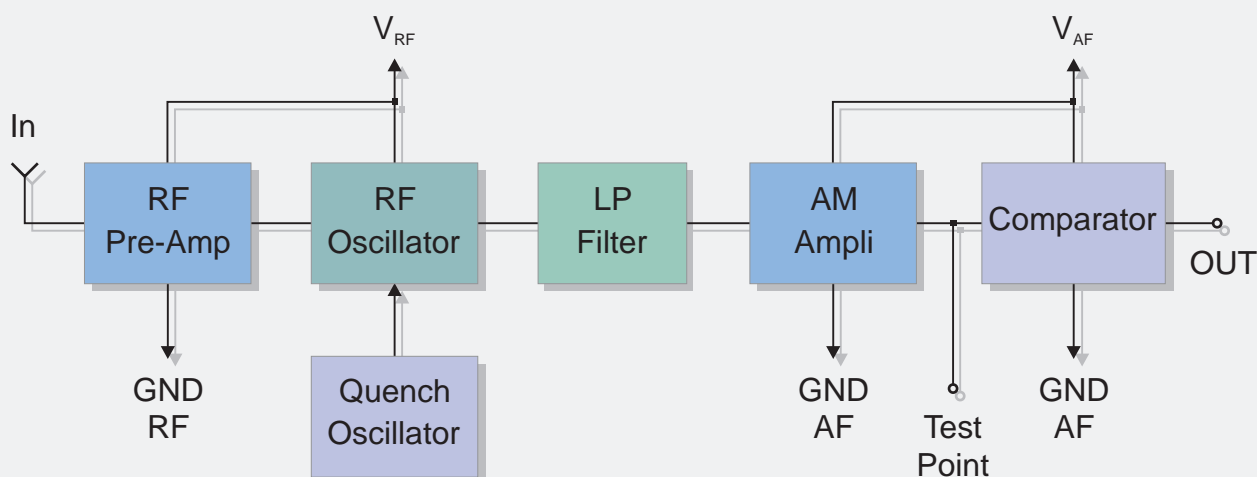
**XXX:** custom-specified working frequency  
( $200 \div 450\ \text{MHz}$ )

Standard European and U.S. frequencies ( $315\text{MHz}$ ,  $418\text{MHz}$ ,  $433.92\text{MHz}$ ) are readily available from stock.

### Applications

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

### BLOCK DIAGRAM



## Electrical Characteristics

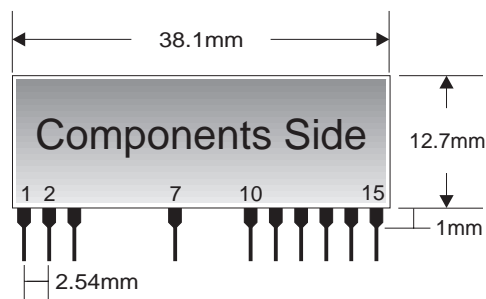
Ta = 25°C unless otherwise specified

CHARACTERISTICS		MIN	TYP	MAX	UNIT
$V_{RF}, V_{AF}$	Supply Voltage	4.5	5	5.5	VDC
$I_S$	Supply Current		300		uA
$F_W$	Working Frequency	280		450	MHz
	Tuning Tolerance		±0.2	±0.5	MHz
$B_W$	-3dB Bandwidth		±2	±3	MHz
	Max Data Rate			2	KHz
	RF Sensitivity (100% AM)		-95		dBm
	Level of Emitted Spectrum		-65	-60	dBm
$T_{ON}$	Turn-on Time		100	150	msec
$V_{ol}$	Low-Level Output Voltage			0.6	V
$V_{oh}$	High-Level Output Voltage	3.6			V
$T_{OP}$	Operating Temperature Range	-25		+80	°C

## Pin Description

1	RF +V <sub>CC</sub>	9	NC
2	RF GND	10	AF +V <sub>CC</sub>
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

