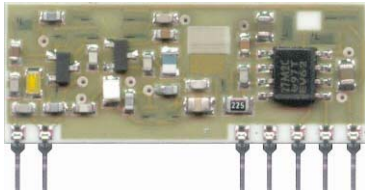


**RR13-868.35**

868.350 MHz Super Regenerative Radio Receiver With Laser Trimmed Capacitor

**General description**

The RR13 is a super regenerative UHF radio receiver with minimum power consumption and good sensitivity.

The RR13 is ideally designed to a variety of remote alarm, control or monitoring battery operated applications.

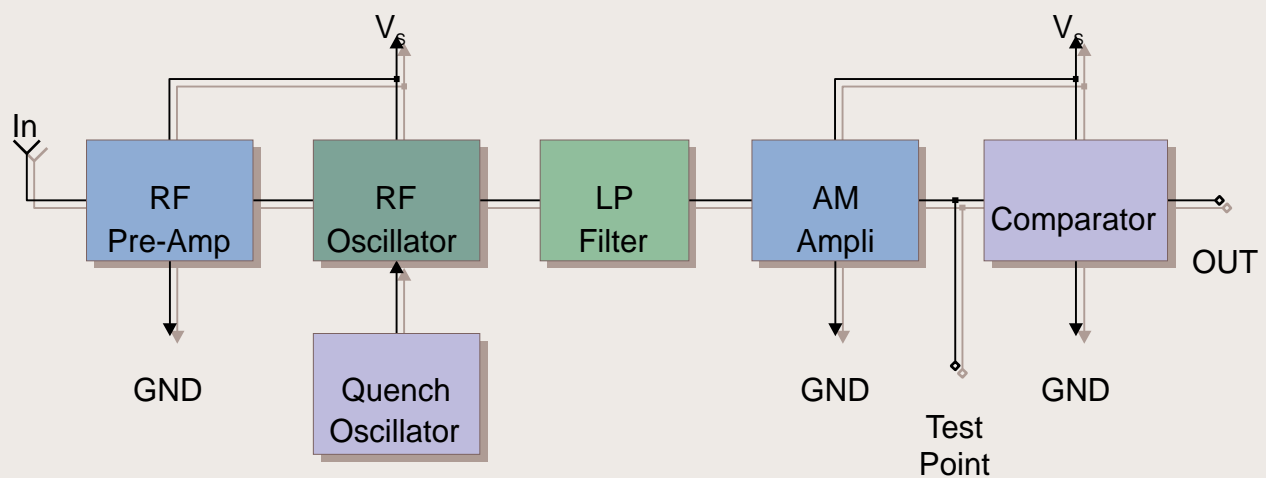
The frequency accuracy is very high thanks to laser trimming process.

Typical Sensitivity: -90dBm

Current consumption: 500uA

**Applications**

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

**BLOCK DIAGRAM**

## Electrical Characteristics

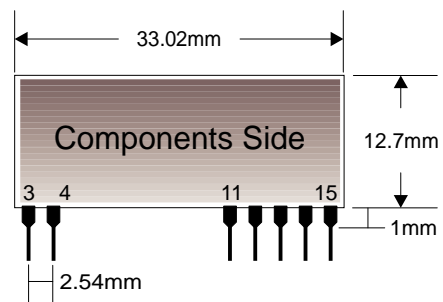
Ta = 25°C unless otherwise specified

CHARACTERISTICS		MIN	TYP	MAX	UNIT
V <sub>S</sub>	Supply Voltage	4.5	5	5.5	VDC
I <sub>S</sub>	Supply Current		500		uA
F <sub>w</sub>	Receiver Frequency		868.350		MHz
	Tuning Tolerance		±0.2	±0.5	MHz
B <sub>w</sub>	-3dB Bandwidth		±2		MHz
	Data Rate	50		4800	bit/sec
	RF Sensitivity (100% AM)		-90		dBm
	Start-Up Time		100		msec
	Conducted Spurious Emissions			-60	dBm
V <sub>ol</sub>	Low-Level Output Voltage				V
V <sub>oh</sub>	High-Level Output Voltage		3.5		V
T <sub>OP</sub>	Operating Temperature Range		-25		°C

## Pin Description

3	IN
4	GND
11	GND
12	NC
13	Test Point
14	Output
15	+V <sub>CC</sub>

## Mechanical Dimensions



## TYPICAL APPLICATION

