

RR80-XXX

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

General description

Very small super regenerative data receiver: dimensions are 50% smaller than RR8 model.

Designed for application with space constrains.

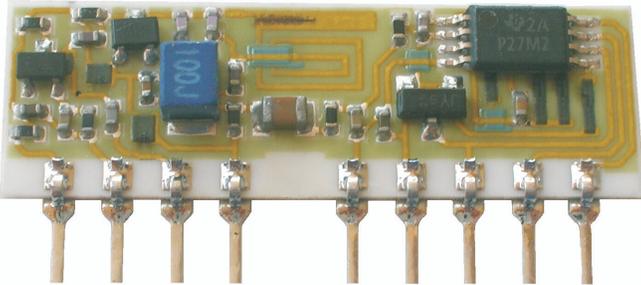
Sensitivity typically exceeds -90dBm.

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.

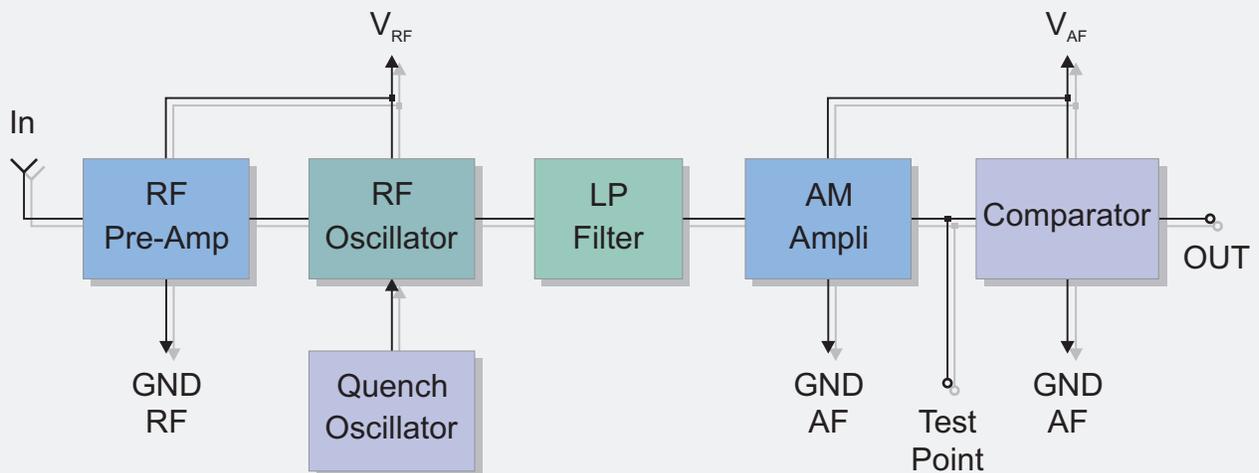


XXX: custom-specified working frequency
(200 ÷ 450 MHz)

Applications

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

BLOCK DIAGRAM



Electrical Characteristics

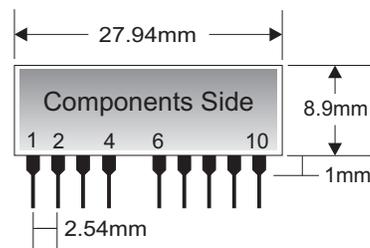
Ta = 25°C unless otherwise specified

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		±0.2	±0.5	MHz
B _W	-3dB Bandwidth		±2	±3	MHz
	Max Data Rate			4.8	Kbit/s
	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

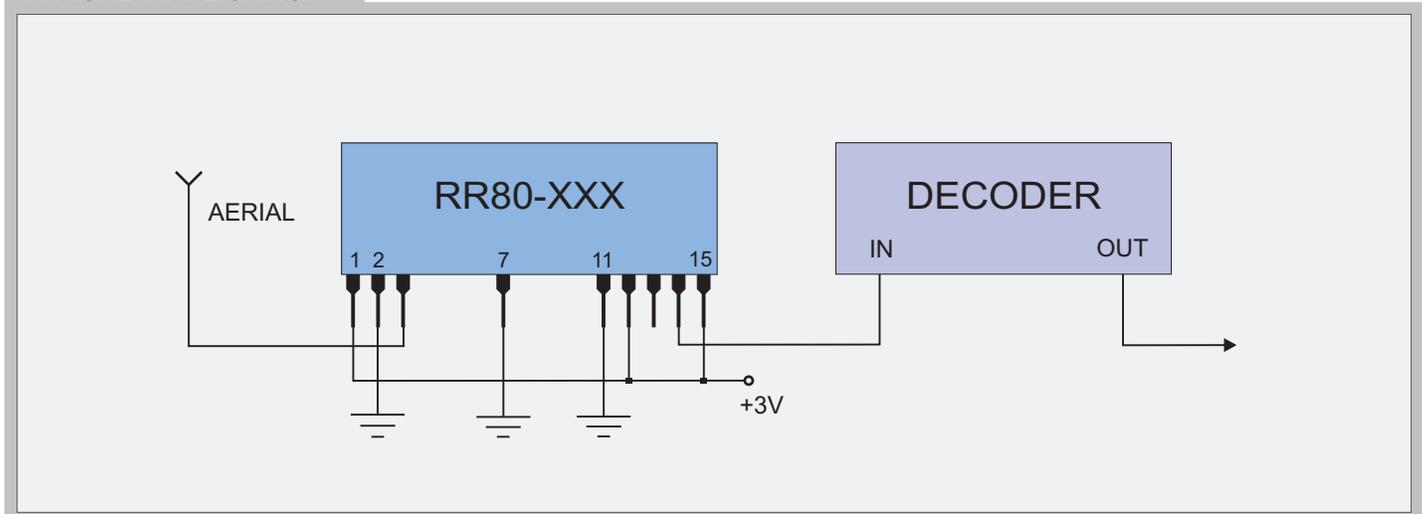
Pin Description

1	RF +V _{CC}
2	RF GND
3	IN
4	RF GND
6	AF GND
7	AF +V _{CC}
8	Test Point
9	OUT
10	AF +V _{CC}

Mechanical Dimensions



TYPICAL APPLICATION



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