

# RR40-XXX-HP-LC

Super Regenerative Radio Receiver

- High Performance
- Low Cost
- With Laser Trimmed Inductor



### **General description**

Very small super regenerative data receiver: dimensions are 50% smaller than Telecontrolli super-regenerative family RRXX.

Sensitivity typically exceedes -100dBm (2.2uVrms) when matched to 50 ohm.

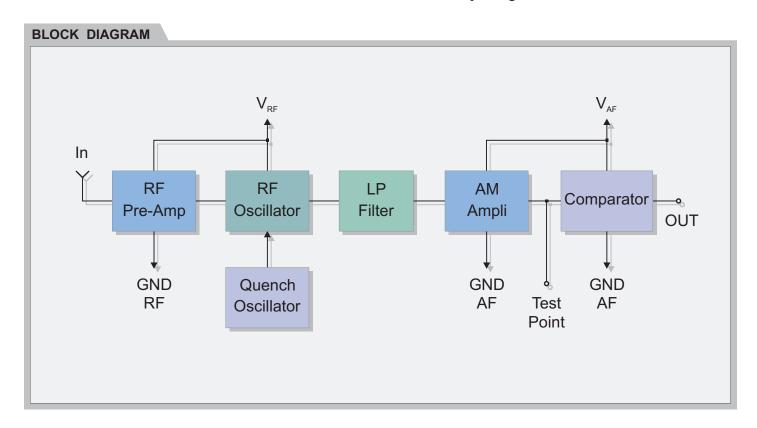
It shows high frequency stability also in presence of mechanical vibrations, manual handling and in a wide range of temperature.

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

**XXX:** custom-specified working frequency (300 ÷ 450 MHz)

#### **Applications**

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



#### **Electrical Characteristics**

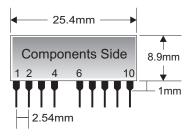
Ta = 25°C unless otherwise specified

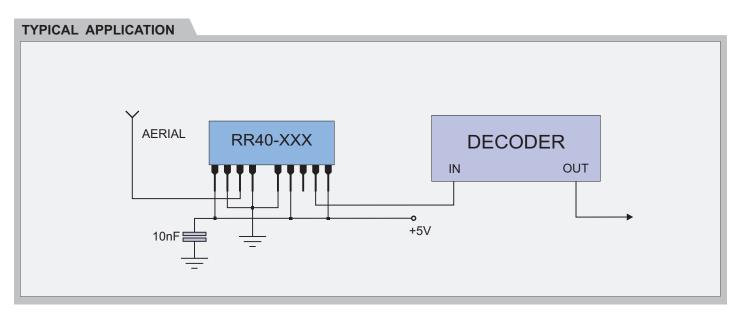
	CHARACTERISTICS	MIN	TYP	MAX	UNIT
$V_{RF}$	RF Supply Voltage	4.5	5	5.5	VDC
$V_{AF}$	AF Supply Voltage	4.5	5	5.5	VDC
Is	Supply Current		2.5	3	mA
$F_{w}$	Working Frequency	300		450	MHz
	Tuning Tolerance		±0.2	±0.5	MHz
$B_w$	-3dB Bandwidth		±2	±3	MHz
	Max Data Rate			4.8	Kbit/s
	RF Sensitivity (100% AM)	-100	-105		dBm
	Level of Emitted Spectrum		-65	-60	dBm
$V_{ol}$	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  $+V_{cc}$
- 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**





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#### **HEAD OFFICE & PLANT**

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