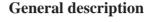


## RR10-XXX

Narrow Bandwidth Super Regenerative Radio Receiver - Laser Trimmed Inductor





The RR10-XXX is a super regenerative data receiver.

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

Narrow Bandwidth:

-3dB +/-1.5MHz -30dB +/- 5MHz -50dB +/- 7MHz

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

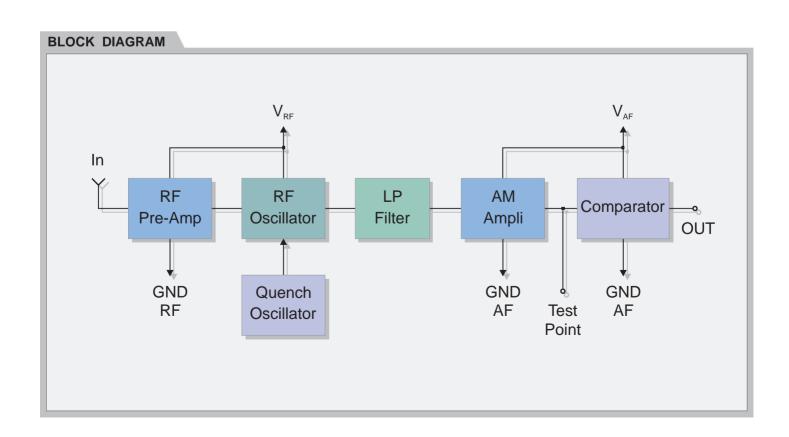
# **I-ETS 300-220 Compliance**

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

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

#### **Applications**

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



#### **Electrical Characteristics**

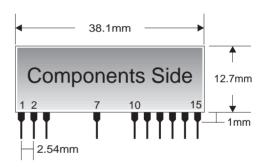
Ta = 25°C unless otherwise specified

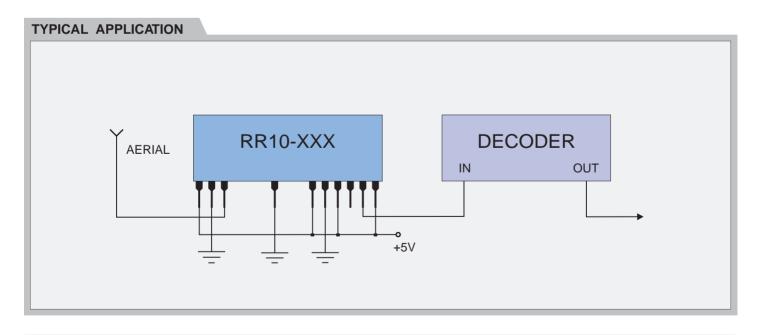
	CHARACTERISTICS	MIN	TYP	MAX	UNIT
$V_{RF}$	RF Supply Voltage	4.5	5	5.5	VDC
$V_{AF}$	AF Supply Voltage	4.5	5	5.5	VDC
Is	Supply Current		1.2	1.5	mA
$F_{w}$	Working Frequency	200		450	MHz
	Tuning Tolerance		+/-0.2	+/-0.5	MHz
$B_w$	-3dB Bandwidth		+/-1.5	+/-2	MHz
	Max Data Rate			2	KHz
	RF Sensitivity (100% AM)	-100	-102		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 <sub>OP</sub>	Operating Temperature Range	-25		+80	°C

### **Pin Description**

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

#### **Mechanical Dimensions**







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

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