

RR10-XXX

Narrow Bandwidth Super Regenerative Radio Receiver - Laser Trimmed Inductor

General description

The RR10-XXX is a super regenerative data receiver.

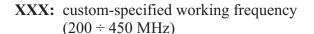
Sensitivity typically exceedes -100dBm (2.2uVrms) when matched to 50 ohm.



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

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

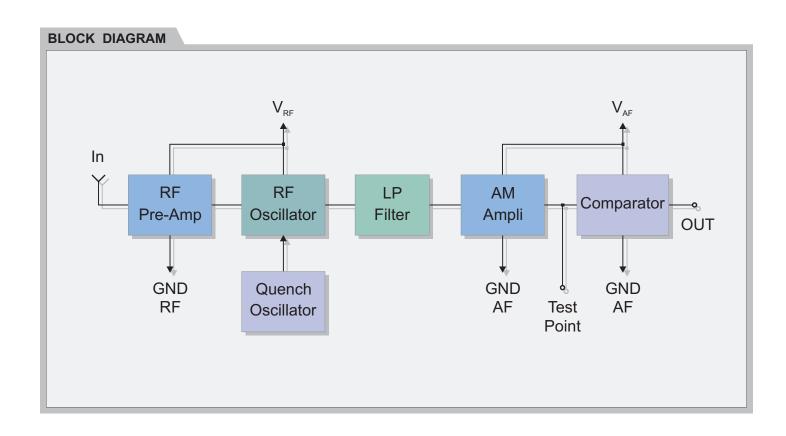
I-ETS 300-220 Compliance



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

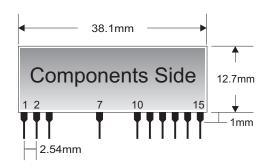
Ta = 25°C unless otherwise specified

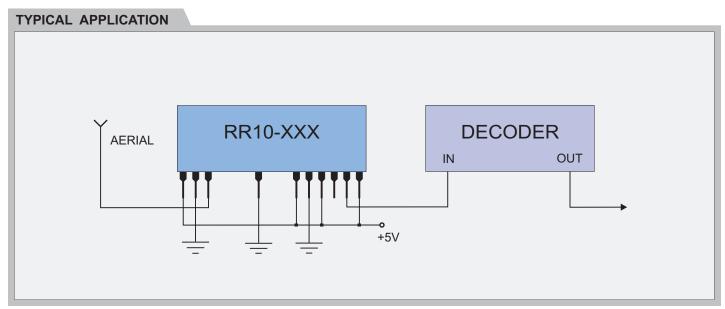
	CHARACTERISTICS	MIN	TYP	MAX	UNIT
V_{RF}	RF Supply Voltage	4.5	5	5.5	VDC
V_{AF}	AF Supply Voltage	4.5	5	5.5	VDC
Is	Supply Current		1.2	1.5	mA
F_{w}	Working Frequency	200		450	MHz
	Tuning Tolerance		+/-0.2	+/-0.5	MHz
B_w	-3dB Bandwidth		+/-1.5	+/-2	MHz
	Max Data Rate			4.8	Kbit/s
	RF Sensitivity (100% 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 _{OP}	Operating Temperature Range	-25		+80	°C

Pin Description

1	RF +V _{cc}	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





Telecontrolli Srl has an on going policy to improve the performance and reliability of their products; we therefore reserve the right to make changes without notice. The information contained in our data sheets is believed to be accurate, however we do not assume any liability arising from the application or use of any product or circuit.



Web Site: www.telecontrolli.com

HEAD OFFICE & PLANT

Via Nazionale delle Puglie, 177 80026 CASORIA (NA), Italy Tel: +39 081 7599033 Fax: +39 081 7596494 sales @ telecontrolli.com