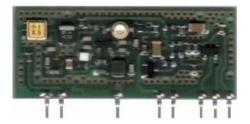
RR18-XXX

Very Low Consumption Super Regenerative Receiver with Front End SAW Filter - Optional Metal Shield



General description

The RR18-XXX is a very low consumption super

regenerative data receiver with front end SAW filter.

EMI immunity improved by a metal shield (**RR18-XXX-S** model)

Typica current consumption: 70 uA

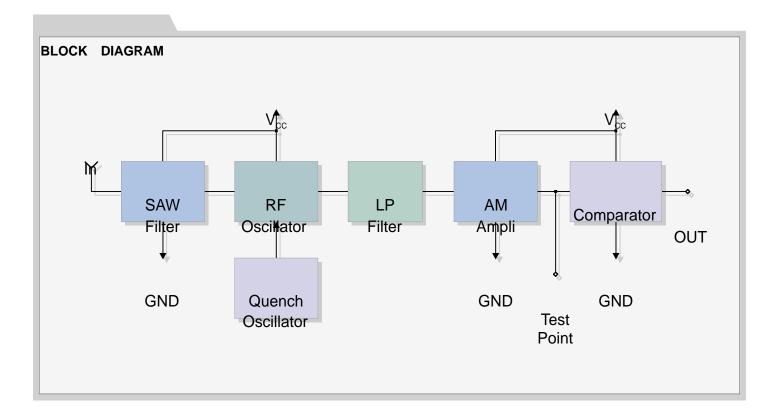
Sensitivity typically exceedes -96dBm when matched to 50 ohm.

Narrow Bandwidth: +/- 300 KHz

XXX: custom-specified working frequency

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_{cc}	Supply Voltage	2.75	3	3.25	VDC
Is	Supply Current		70		uA
F_{w}	Working Frequency		433.92		MHz
B_w	-3dB Bandwidth		+/-300		KHz
	RF Sensitivity (100% AM)	-94	-96		dBm
	Data Rate		4.8		Kbit/s
	Level of Emitted Spectrum		-65	-60	dBm
V_{ol}	Low-Level Output Voltage			0.4	V
V_{oh}	High-Level Output Voltage	Vcc - 0.4			V
T_{OP}	Operating Temperature Range	-25		+80	°C

Pin Description

2 GND 11 GND 3 IN 13 Test Point 7 GND 14 OUT 10 +V_{cc} 15 +V_{cc}

Mechanical Dimensions

