



RXN3

315/433.92 MHz

Hybrid Receiver



- ◎Ideal for 315/433.92MHz Remote Keyless-Entry Receives.
- ◎Two-size selectable.



The RXN3 is a miniature receiver module that receives On-off keyed (OOK) modulation signal and demodulated to digital signal for the next decoder stage. Local Oscillator is made of PLL structure. The result is excellent performance in a simple-to-use ,with a low external component count.

The RXN3 is designed specifically for unlicensed remote-control and wireless security receiver operating at 315/434Mhz

Absolute Maximum Ratings

Rating	Value	Units
Power Supply and/or Modulation Input Voltage	2.4 to 5.5	V
Operating temperature	-40 to +80	°C

Receiver Characteristics

Paramater	Symbol	Condition	Value			Unit
			min.	typ.	max.	
Sensitivity	Psens	Vcc=3.0V,TA-27°C , BER=3/100, 2Kbps	315MHz	-109	-112	dBm
			433.92MHz	-108	-111	dBm
Supply current	Icc	315MHz		2.7	3.0	mA
		433.92MHz		2.9	3.2	mA
Supply Voltage Range	VCC	370 ~ 440MHz	+2.4	+5	+5.5	V
Standby current	ISTBY	Pull Low EN CE PIN		5	8	uA
Output current	Iout	Data Out PIN	6	20		uA
Data rate	DRATE		200	1K	5K	bps



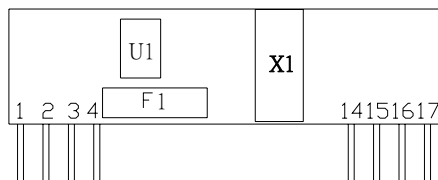
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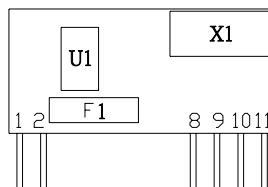
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Pin Descriptions

RXN3-B

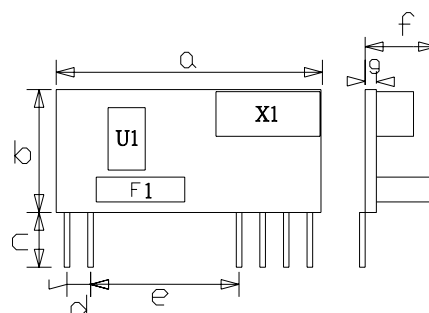
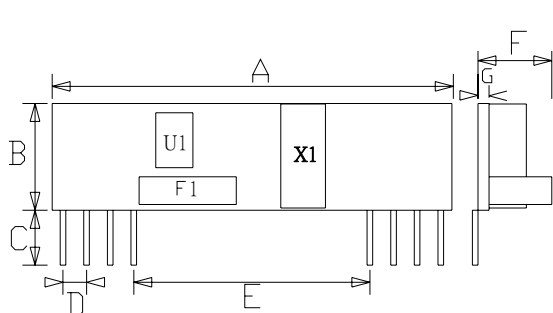


RXN3-S



RXN3-B		
Number	Name	Description
1	ANT	
2	GND1	for RF only , please setup the pin on N.C when it did not used
3	GND1	for RF only , please setup the pin on N.C when it did not used
4	VCC	DC voltage supply
14	VCC	DC voltage supply
15	DATA OUT	Demodulator output.
16	DATA OUT	Demodulator output.
17	GND	

RXN3-S		
Number	Name	Description
1	ANT	
2	GND1	for RF only ,PLS setup this pin on N.C .When it did not used
8	CE	Pull Hi for work stare
9	VCC	DC voltage supply
10	DATA OUT	Demodulator output
11	GND	



Dimension	Millimeters	Dimension	Millimeters	Dimension	Millimeters	Dimension	Millimeters
A	43+/-0.25mm	E	25.4+/-0.15mm	a	28.5+/-0.25mm	e	15.3+/-0.2mm
B	11.5+/-0.25mm	F	8.5+/-0.5mm	b	12.25+/-0.25mm	f	8.5+/-0.5mm
C	5.9+/-0.1mm	G	1.2mm(MAX)	c	5.9+/-0.1mm	g	1.2mm(MAX)
D	2.54mm(MAX)			d	2.54mm(MAX)		

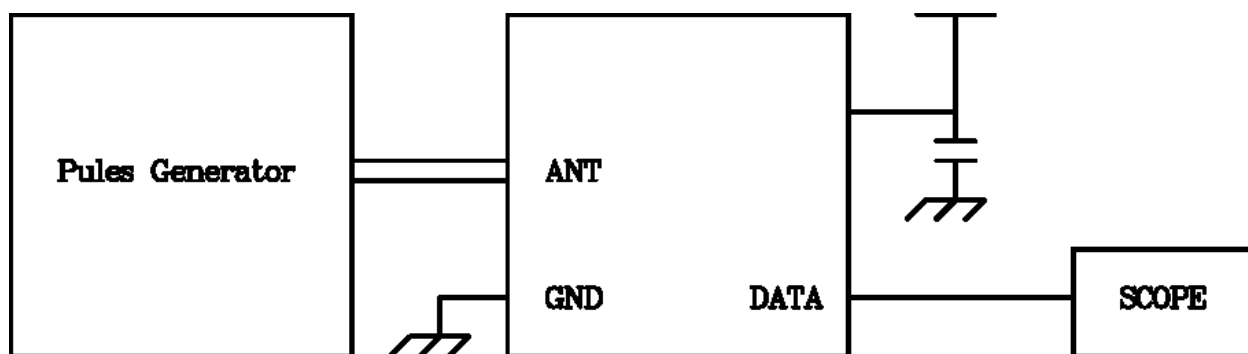


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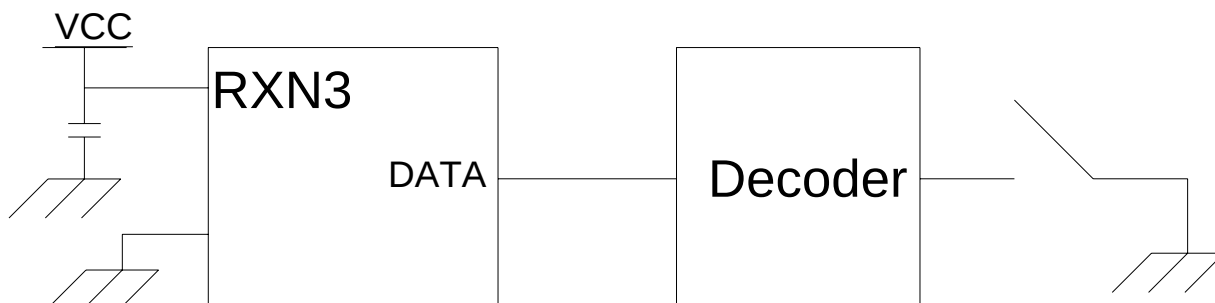
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Typing Test Circuit



Typical receiver application



Notes:

1. Decoder : HT12D/F,PTC(2262)
2. Antenna : Length=22.6cm for 315MHz; Length=17cm for 434MHz.