



RXB1

315/433.92 MHz (ASK)

Hybrid Receiver



Ideal for 315/433.92MHz Remote Keyless-Entry Receives.

Phase-Locked Loop Feature



The RXB1 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 RXB1 is designed specifically for remote-control and wireless security receiver operating at 315/433.92Mhz

Absolute Maximum Ratings

Rating	Value	Units
Power Supply and/or Modulation Input Voltage	5	V
Operating temperature	-40 to +80	

Receiver Characteristics

Paramater	Symbol	Condition	Value			Unit
			min.	typ.	max.	
Sensitivity	Psens	Vcc=5.0V, TA=27°C, BER=3/100, 2Kbps	315MHz	-105	-103	dBm
			433.92MHz	-104	-102	dBm
ASKOUT logic HIGH	VOH	Iload = 10uA	0.7*Vcc			V
ASKOUT logic LOW	VOL	Iload = 10uA			0.3*Vcc	V
Supply current	Icc			3		mA
Supply voltage Range	Vcc		+4.75	+5	+5.25	V
Data Rate			300	1K	4~5K	bps

* Data Rate can be increased to 10K by changing components



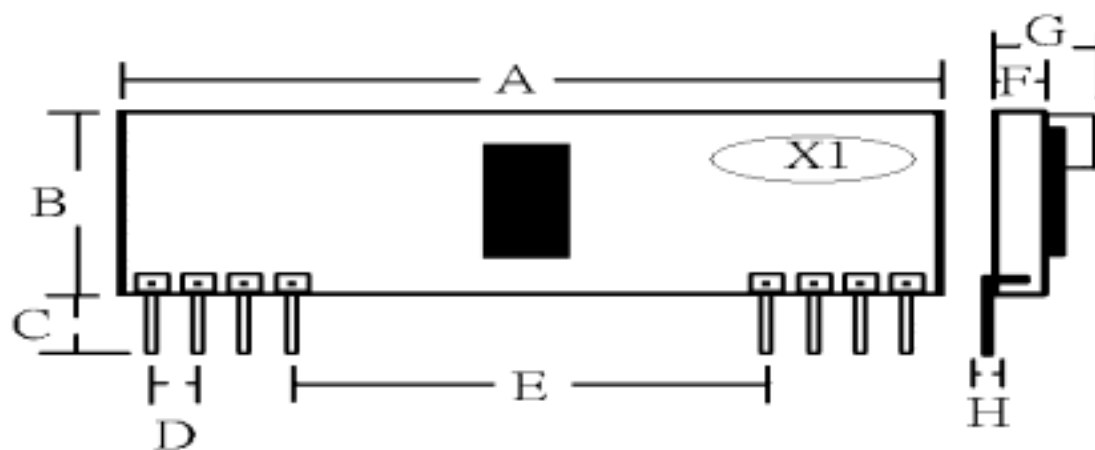
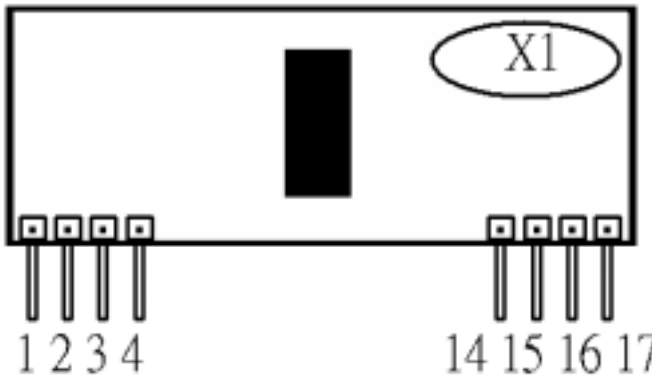
RXB1

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Pin assignment

Pin	Connections
1	ANT
2	GND
3	GND
4	VCC
14	VCC
15	DATA
16	DATA
17	GND



Dimensions	Millimeters	Dimensions	Millimeters
A	43.0 +/- 0.25mm	F	1.2 (MAX)
B	11.5 +/- 0.25mm	G	5.2 +/- 0.15mm
C	5.9 +/- 0.1mm	H	0.095 (MAX)
D	2.54 (MAX)		
E	25.5 +/- 0.05mm		

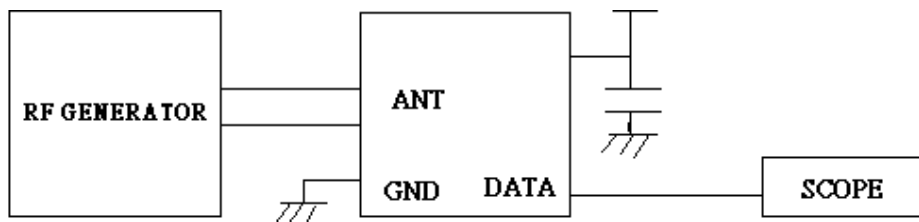


RXB1

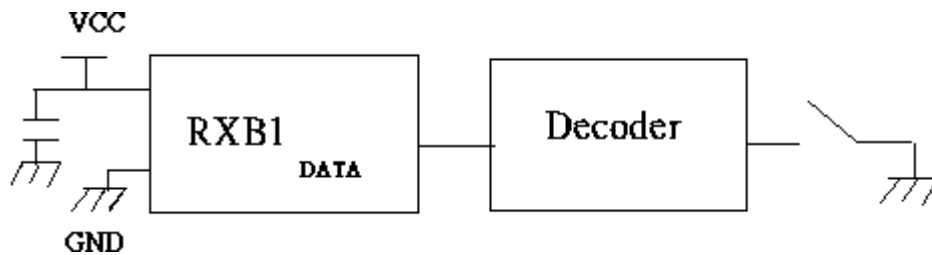
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Typing Test Circuit



Typical receiver Application



Notes:

1. Decoder : HT12D/F , PTC (2262)
2. Antenna : Length = 22.6cm for 315MHz ; Length = 17 cm for 433.92MHz.