

RXC1

**315/434
868/914.5MHZ
Hybrid
Receiver**

Ideal for 315/433.92/868.35/914.5MHz
 Remote Keyless-Entry Receives.
 Phase-Locked Loop Feature
 FSK Design

The RXC1 is a FSK receiver module that receives. Local Oscillator is made of PLL structure. The result is excellent performance in a simple-to-use The RXC1 is designed specifically for remote-control , wireless speaker/earphone/microphone/mouse and car alarm system operating at 315/433.92/868.35/914.5Mhz



Absolute Maximum Ratings

parameter	Value	Units
Power Supply and/or Modulation Input Voltage	3	V
Operating temperature	-20 to +80	

Receiver Characteristics

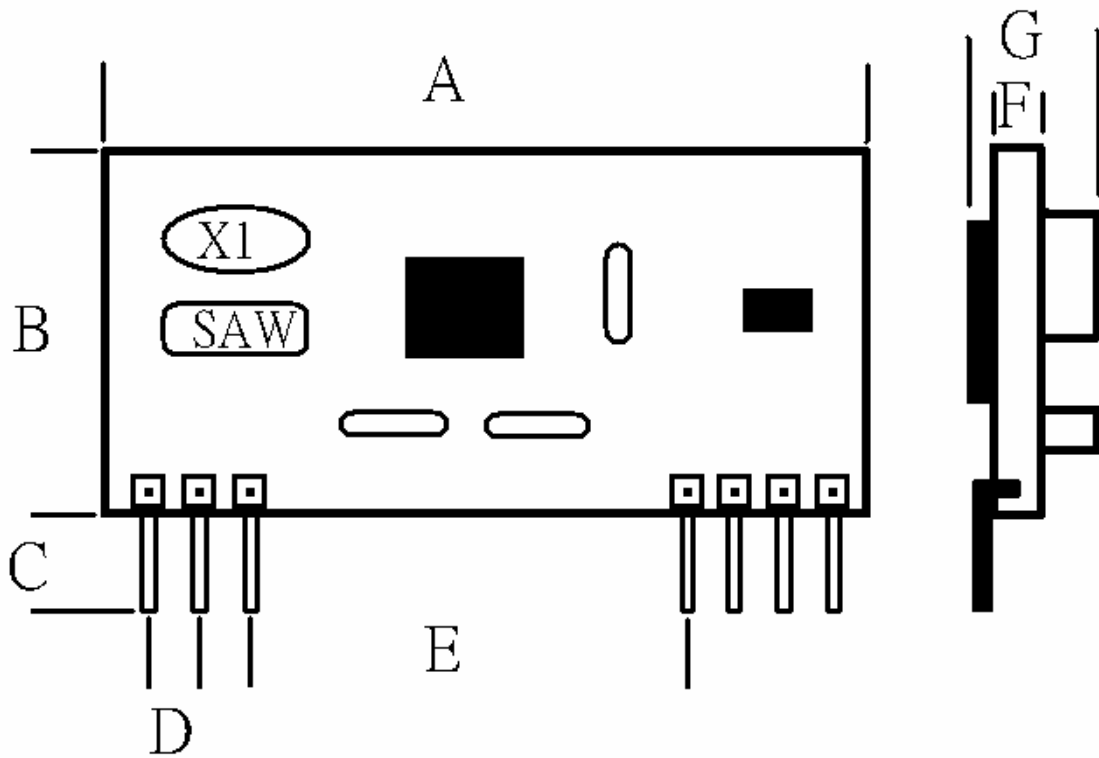
Parameter	Symbol	Condition	Value			Unit
			min.	typ.	max.	
Sensitivity	Psens	V _{cc} =3.0V,TA-27 , BER=3/100, 2Kbps, BW _{IF} = 230KHz	315MHz	-98	-97	dBm
			433.92MHz	-98	-97	dBm
			868.35MHz	-96	-93	dBm
			914.5MHz	-96	-93	dBm
Supply current	I _{cc}		9		mA	
Supply voltage Range	V _{cc}		+2.7	+3	+3.3	V
Data Rate			300	1K	4K~5K	bps

* Data Rate can be increased to 10K by changing components, but the receiving range will be shortened.

Pin assignment

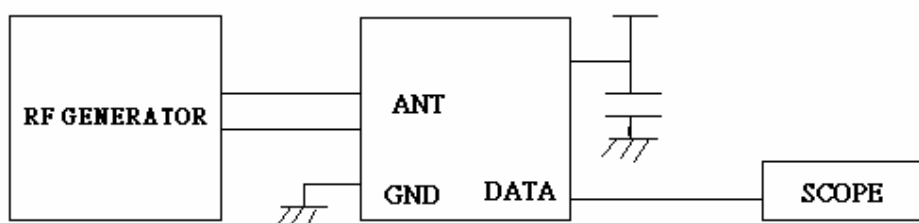
PIN	Connections
1	ANT
2	GND
3	GND
14	VCC
15	DATA
16	DATA
17	GND

The diagram shows a top-down view of the Hybrid Receiver chip. It features a central square component, likely the SAW filter, and an oval component labeled 'X1'. Two horizontal oval components are located below the central square. The chip has two sets of pins: three on the left (pins 1, 2, 3) and four on the right (pins 14, 15, 16, 17). The labels 'X1' and 'SAW' are positioned above the central square component.

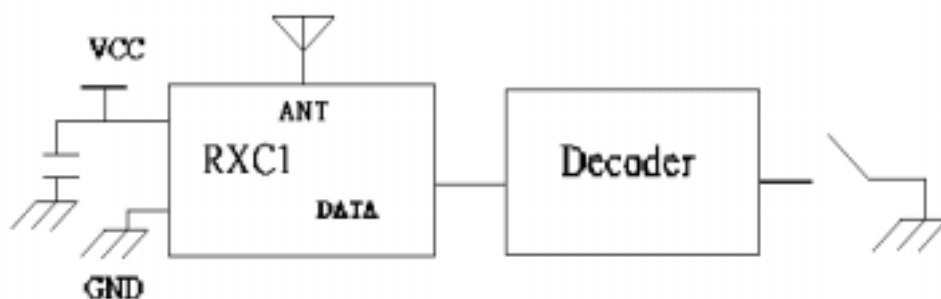


Dimensions	Millimeters	Dimensions	Millimeters
A	44.5 +/- 0.25mm	E	27.2 +/- 0.01mm
B	18.3 +/- 0.25mm	F	1.2mm (MAX)
C	5.9 +/- 0.1mm	G	10.5 +/- 0.1mm
D	2.54mm (MAX)		

Typing Test Circuit



Typical receiver Application



Notes:

1. Decoder : HT12D/F , PTC (2262)
2. Antenna : Length = 22.6cm for 315MHz ; Length = 17.2 cm for 433.92MHz.
Length = 8.7cm for 868.35MHz ; Length = 8.2cm for 914.5MHz