深圳市光大佳廉电子有限公司
GD-RXV6D rolling code Technologic Specification

Http://www.tgdd-gd.com

GD-RXV6D, VHF/UHF wireless superheterodyne decoding receiver module, widely used in GSM/GPS car alarm systems, gagage doors/swing gate and industrial control and all kinds of security systems,ect.Useing SAW and HCS301 made in MICROCHIP company,SMT components and many other import components. never allow frequency shift and shorten the range even in the condition of shaking and high-low temperature.Higher security and stability, better resistance.

The main features:

（1）Sensitivity of -115dbm,The range is twice longer than the common receiver.

（2）Reasonable receiver bandwidth，highly resistance to RF interference. The device is capable of resisting the same frequency

（3）Especially designed to minimize the unwanted RF radiation and optimize in radiating the RF radiation that is used for RF communication. Such implementation will easily be passing the strict RF requirements set(FCC CE) by the RF organization

（4）Better shield,installation environment caused little infection。

（5）Minimized to avoid interference and allow multiple RF module (1 transmitter to multiple receiver) to work together, no bad effect on receiving range。

（6）Using SAW Technology, steady capability，wide range of working temperature。

（7）Excellent noise and interference immunity , Better decode signal / wave form.

（8）Frequency：433 MHz。

（9）Using KEELOQ CODE HOPPING fo the company MICROCHIP.400 Million kinds of code ,anti-copied and sacnned ,much safer than fixed code

Electric Parameters：

VOD-VSS-5V, TA=25℃   GD-RXV6D-5V-433.92

Parameters	Sign	State	Refference Value			Unit
			The least	Usual	The most	
Frequency	Fc			433.92		MHz
Modilation Mode			ASK			
Sensivity		50OHM antenne input directly BER3/1000 , 1.2kbps	-105	-110	-115	dbm
The most outputing unsaturation power				-10	0	dbm
Receiver bandwidth			±120		±1000	KHz
Receiver unlocked time	Ton				10	ms
Voltage consuming	IRC	RX-EN=LOW			6~12	mA
Decoding outputs high voltage			4.5			V
Decoding outputs low voltage					0.5	V
Working Temperature	TC		-40		85	℃

The limited value chat：

Parameters	Singn	Value	Unit
Voltage(direct current)	Vcc-Vss	5	V
Working Temperature	TOPR	-40to85	℃
StorageTemperature	TSTG	-60to125	℃

Pins Instruction：

Pins	Comment	Description
1	ANT	Antenna
2,6	GND	ground
3	LEARN	Learning port
4	VCC+5V	voltage
5	VT	public
7,8,9,10	D0,D1,D2,D3	Data ports

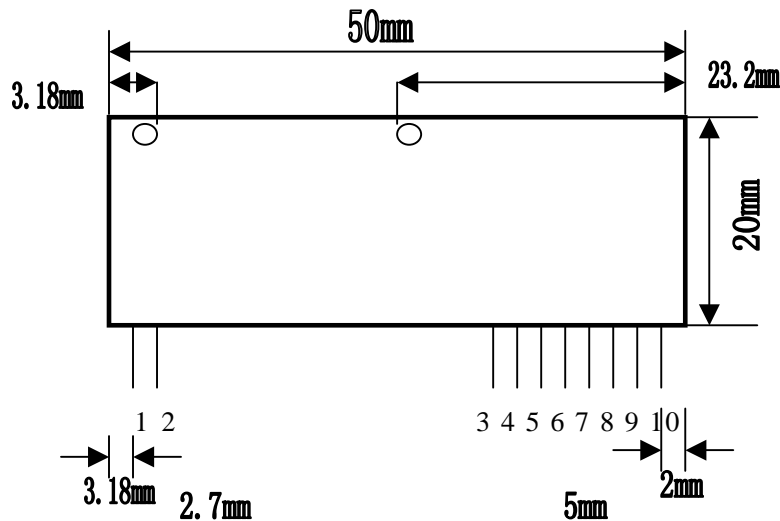**Order Information：** <u>GD-RXV6D</u> - <u>XV</u> –<u>XXXXX</u> -<u>X</u>
            1   2   3   4

1． module type
2． Working Voltage --- （5V）
3． Frequency--- （150---450MHz）
4． Frequency Precision：A：±75KHz   B：±250KHz

Notice：
（1）   Vcc voltage and RF module opeartion voltage should be the same，Accept changes of +/- 5% in operation voltage.
（2）   Antenna will have a great effect on transmitting distance. 1/4 length antenna should be used。
（3）   Antenna placement will also have a great effect on transmitting distance. Antenna should solder to the ANT pin directly or use a connector to plug-in to the antenna.when installed，keep antenna straight,far from shied，high voltage，and interference source。

Pins connection chart

Rolling code receiving match operation :

（1） Match：press SW once （LED flash），then press the button of the transmitter，LED flash 3 times，learn sucessfully.If LED extinguish，it means the transmitter has learned.

（2） Clear：press SW once （LED flash），wait LED extinguish， press SW once again（LED flash），then press SW until LEDextinguish（about 5 s）.