

1 General Product Information

1.1 Product Function and Intended Use

The equipment under test(EUT)is a Two way car alarm system operating at 433.920MHZ

FCC ID VMKG711

Model	Product description
G711	TWO WAY CAR ALARM SYSTEM

1.2 Circuit Description

This is remote of two way car alarm. It consists of MCU processor, RF combo IC, Antenna matching circuit,button control circuit, alarming reminder circuit, display control circuit and power supply circuit. RF combo includes IC filter circuit, magnified circuit, frequency compound circuit, adjustment circuit. Antenna matching circuit consists of receive & transmit transform circuit, antenna.Button control circuit consists of button, button scan. Alarming reminder circuit consists of sound alarming circuit, vibrate alarming circuit. Display control circuit consists of LCD display, LCD drive circuit.Power supply circuit consists of voltage rise up circuit,filter circuit.

When MCU detected button control circuit, MCU processor will send out relevant instruction to RF IC(AT5428), and then RF IC(AT5428) will output 433.92MHz combo signal through FSK adjustment mode,and then there will send out the signal of antenna through R,L,C filter and antenna matching circuit.Main unit will perform related control according to remote instruction(eg. Arming, Disarming, Car finding.)

When the antenna of remote received combo signal from main unit, the signal will be inputted to RF combo IC(AT5428) after it is filter through L, C filter circuit and magnified through magnified circuit. RF Combo IC read out the data from main unit, and send to MCU processor for processing. After processing, the MCU will control relevant control circuit(eg.Alarming, update LCD display message.)

The power of remote was supplied by 1.5V battery, After 1.5V voltage rise up to 3V through voltage rise up circuit, it will be sent out to each circuit after filter by capacitance.

1.3 Ratings and System Details

Frequency range:	433.920MHZ
Crystal Tolerance:	±30KHZ
Number of channels:	1
Type of antenna:	Integral antenna
Power supply:	DC 1.5V
Ports:	DC mains
Protection Class	I
Classification of device:	B