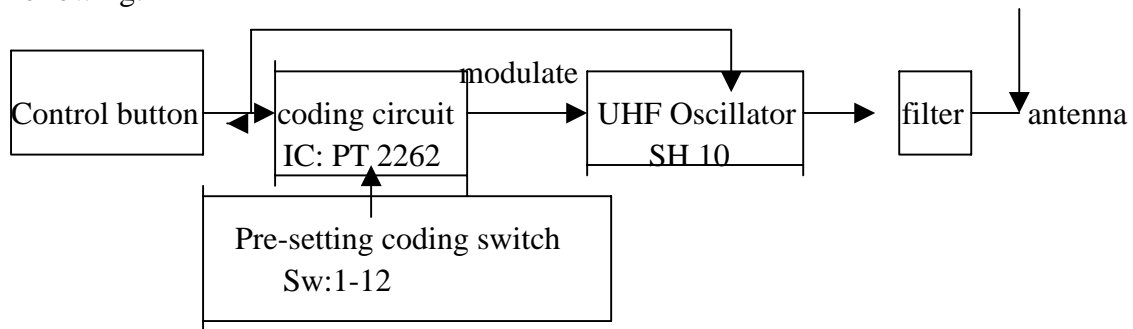


THE WORKING PRINCIPIUM OF NO. 6899 REMOTE

CONTROLLER

No.6899 remote controller is a mini remote sender which can realize short distance's wireless controlling to the family-use electrical appliance (such as power supply socket, door chime, dimmer lamps, and so on.). The chart of its working principium is following:



The working principium of each part:

Control button: one remote controller has one or more control button. Pressing any button will offer the power supply to coding circuit and Oscillator circuit, and at the same time send this button's control data information to coding circuit. Loosening the button will stop sending. It only takes several seconds to accomplish one sending.

Pre-setting coding switch: the remote control have five to twelve dial-code switch which makes it possible for the users to pre-set the control receiver's address code themselves and to control different receiver respectively. The number of cipher at most can reach five hundred and thirty one thousand four hundred and forty one (3^{12}), which can efficiently prevent from having the same cipher and being decoded.

Coding circuit: PT2262 is the special coding IC. It connects the address information setted by the pre-setting coding switch with the controlling information transmitted by from the startup button with a special coding mode, and changes them into groups of serial figure pulse signal which can be recognized by the set. Finally it can modulate the high frequency and carrier frequency .

Oscillator circuit: Super high frequency tube SH10 is the oscillator, modulating, and sending tube. It connects with the LC component into tapped-condencer-oscillator which is less in high-time harmonic. SAW insures the oscillator have high frequency and stabilization. The serial figure signal ,which is sent by coding circuit , modulates the carrier frequency with ASK manner.

Filter sending circuit: LC filter makes adequate attenuation to the high-time harmonic in the adjusted carrier frequency, then the antenna which is inner sends the Hertzian waves to the space. After receiving the signal, the controlled receiver identifies the address code. And after affirmance, the receiver implements the transmitted instruction, accomplishing the wireless controlling.