

### **Circuit Function Description**

1. 25 pcs LEDs are series-connected to form a circuit, then 2 circuits are parallel-connected.
2. When powered to 110~120V AC, the lights are lighted and shows one color.
3. Press on/off switch of remote controller, the lights is off.
4. Press on/off switch again, the lights are lighted and shows the original color when 1<sup>st</sup> powered to AC power.
5. Press on/off switch, the lights are lighted but changed to another different color.
6. Press on/off switch, the lights will be in 2-color-changing mode.
7. After receiving the digital signals from the remote controller, the RF receive module will filter out carrying wave first, then send the signals to MCU.
8. According to the digital signals, our program will check out the ID codes and the button value codes are correct or not.
9. If the ID codes and button value codes are correct, the MCU will control the LED driver circuit to make different patterns and functions.
10. RF module receive frequency is 433.92Mhz