

UC9051T DESIGN DESCRIPTION

The design of UC9051T is installing in the outlet box. It uses the same power loop to collocate the power of controlling receiver's ceiling fan and light. It also varies the ceiling fan speed and the light by radio remote control. (Fig-1)

It uses the control of inductance, SCR, and MOSFET in the power loop, which can gain the around 12V direct power to supply high-frequency and control IC

Transmission controls speed and light of fan through 12 bit encoding connection signal, 7 buttons and 4sets switch. The carrier wave is made by saw oscillator through NPN R/F amplifier

The working frequency on 303.875MHz single fixed the frequency. Details of circuit diagram and block diagram are shown on the attached sheets.

Controller 7 sets 6bit combination from 12 bit to control fan speed 3, 2,1, and OFF, REVERSE, BUTTON LIGHT, UPPER LIGHT. To create 16address from 4bit to avoid interference.

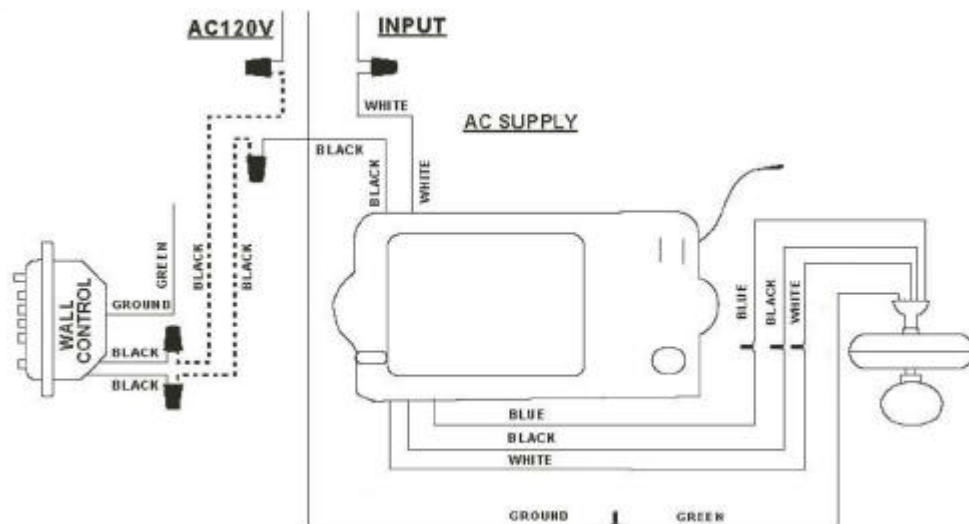


Fig-1