

Technical Description

Transmitter

The transmitter consists 6 main block functions, namely, the keypad, the resonator, the encoder IC, the filter, the amplifier and the transmission antenna.

There are several function keys on the keypad, namely, the fan speed high, med and low, the light on/off and dimmer. Once the function key on the keypad is pressed, signal is sent to the encoder IC HT12E.

The encoder encodes information which consists of address bits and data bits. The programmed addresses/data are transmitted via RF upon receipt of a trigger signal. Signal output from HT12E port 17 to oscillator.

The oscillator generates the carrier frequency at center frequency of 299.8MHz and transmits signal through antenna.