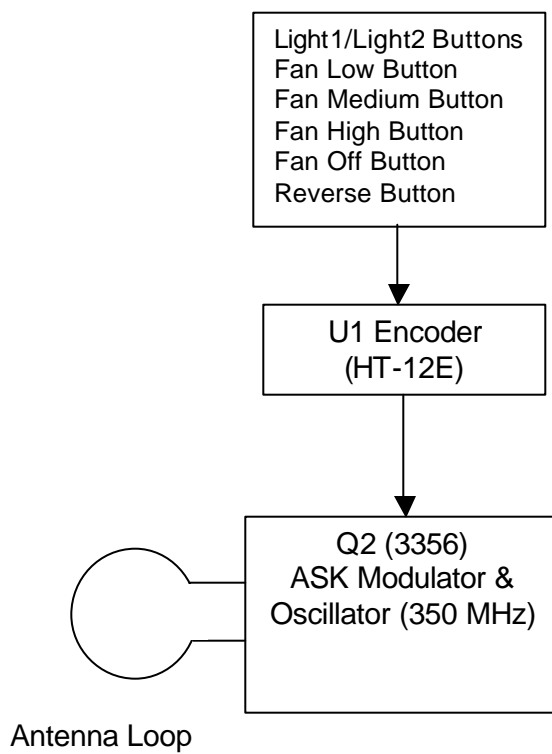


Hunter Fan & Light Remote Control Transmitter Block Diagram

Description:

The top box of the diagram below represents all of the potential keys that may be pressed for the Hunter transmitter. Pressing any key generates an encoded PCM code word which will modulate on a 350 MHz RF carrier for transmission. The encoded PCM code word is obtained from encoder U1 and is ASK modulated by the RF oscillator formed by transistor Q2. Encoder U1 also provides four selectable security bits which can be set by the user.



Hunter Fan & Light Remote Control Receiver Block Diagram

Description:

Refer to the block diagram of the Hunter 85483 receiver below. Power is supplied to the receiving and control circuits through a 5-Volt regulator U1, which is not shown in the diagram. Transistor Q1 is the front amplifier to amplify the signal received from the monopole antenna. Transistor Q2 is the super-regenerative receiving stage, whose frequency can be factory tuned by coil L2. Op-Amp U1 is configured as the detector. Microcontroller U2 converts the PCM data signal and outputs 4 data bits to performs the desired actions to control the fan speed and light bulb brightness. Microcontroller U2 also provides four selectable security bits which can be set by the user and must match that of the hand-held remote transmitter to be a valid command.

