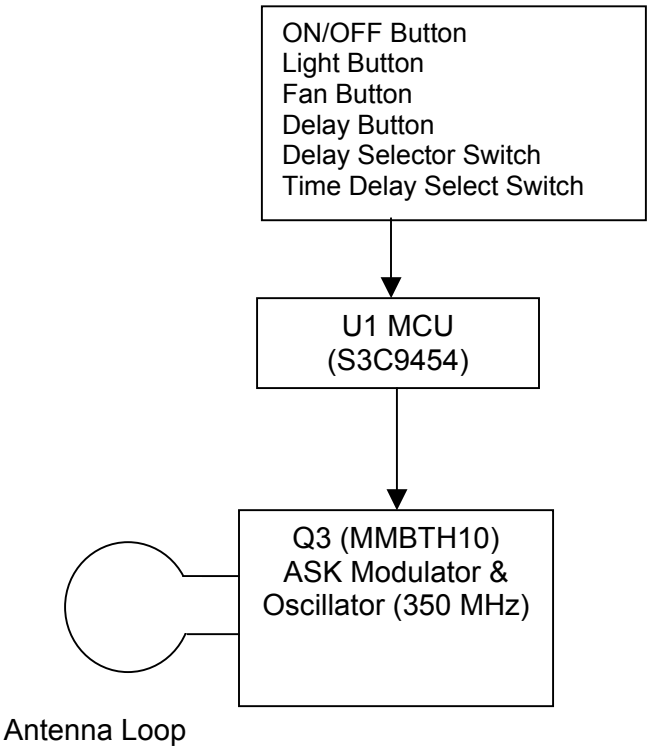
# Hunter B32 Bathroom Fan & Light Remote Control Transmitter Block Diagram

Description:

The top box of the diagram below represents all of the potential keys that may be pressed for the Hunter transmitter. When pressing the On / Off Button, power on & off. Pressing light/fan/delay key generates an encoded PCM code words, which will modulate on a 350 MHz RF carrier for transmission. The encoded PCM code word is obtained from MCU U1 and is ASK modulated by the RF oscillator formed by transistor Q3. Delay-off button turns off device(s) selected in Device selector switch which enables fan, light or both for delay-off operation after the time selected by Delay-off time selector switch which turns off selected device(s) after 5, 10 or 20 minutes.



# Hunter Bathroom Fan & Light Remote Control Receiver Block Diagram

Description:

Refer to the block diagram of the Hunter 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 to performs the desired actions to control the fan and light.