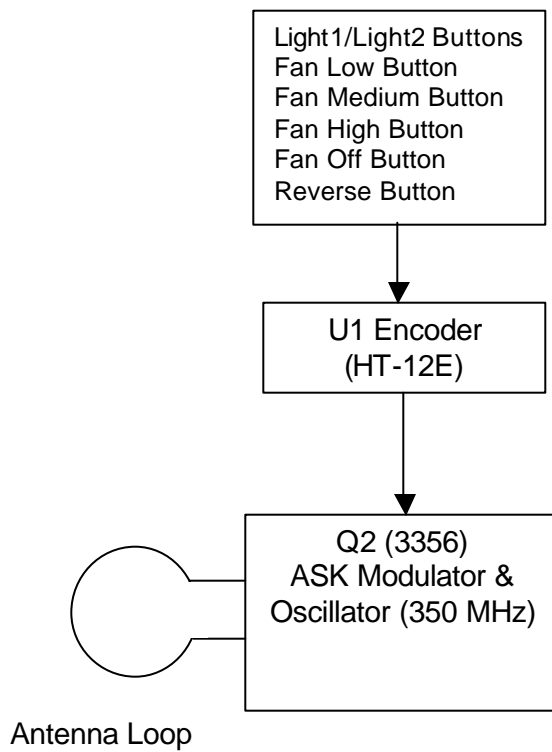# Hunter Fan & Light Remote Control Transmitter Operational Description

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.

```
┌─────────────────────────┐
│ Light1/Light2 Buttons   │
│ Fan Low Button          │
│ Fan Medium Button       │
│ Fan High Button         │
│ Fan Off Button          │
│ Reverse Button          │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│      U1 Encoder         │
│       (HT-12E)          │
└─────────────────────────┘
             │
             ▼
      ┌─────────────────────────┐
   ◯──┤      Q2 (3356)          │
      │   ASK Modulator &       │
   ───┤  Oscillator (350 MHz)   │
      └─────────────────────────┘
 Antenna Loop
```
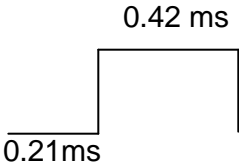
Casablanca Fan & Light Remote Control RF Transmitter Coding

Description: The Hunter transmitter uses the following code words to modulate on a 350 MHz RF carrier by using ASK modulation.
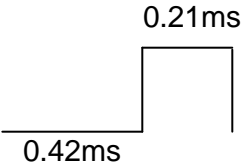
Code words for the different commands:

    1xxxx0000101
    1xxxx0001001
    1xxxx0000110
    1xxxx0000111
    1xxxx0001000
    1xxxx0001101
    1xxxx0001110   (Where "x" can be set to "1" or "0" by the user with DIP switches.)

Code "0" is represented as:

                          0.42 ms

        0.21ms

Code "1" is represented as:

                          0.21ms

        0.42ms

The interval between two code words is about 7.56 ms.