

FCC ID: UCFURC550  
CONTEC HOLDINGS, LLC.

## CIRCUIT DESCRIPTION

### 1. Block diagram

- 1) This device is a low-power ASK transmitter designation for UHF band (Amplitude Shift Key).
- 2) This remote transmits IR & RF signal only in SAT mode, other device mode (TV, DVD, AUDIO, AUX) transmits IR signal only. 5 mode buttons do not transmit any data.
- 3) In stand-by state, Mod\_in Port(J1, Pin #2) is in Low(Logic “0”). In case of a button pressed, Q1 & Q2 are turned on if Mod\_in  $\geq 1V$ (Logic= “1”). So, 3V power is supplied to Resonator X1 and Amp Q3 by R8 and L3 through Low Pass Filter (L1, R6, C5, C10). Wireless pulse in the range of UHF is generated and amplified in Amp Q3 by L2, C2, C11 and radiate the signals to antenna through matching network.
- 4) In case of mode\_in  $\leq 1 V$ (Logic= “0”), Q1 and Q2 are turned off. This case does not generate any RF signal.

### 2. Other Questions

- If the EUT is a transmitter explain what is transmitted(data, live data, voice) and the type of modulation(AM, FM, SSB, PULSE, DSS, FHSS) that is used. Explain any transmit or modulation duty cycles.

RF method of this remote uses AM. Please see attached data format.

- Describe the antenna intended for use with device.

Answer : This remote use pattern antenna on the pcb itself (no external antenna).

- For Spread Spectrum devices, please provide the following information:

- Bit Rate
- Chipping Rate
- Data Rate
- Spreading Rate

No relations with above (BSS & FHSS are related with above).