

## Circuit description of TW03SS Remote Unit

When the button of the remote unit is pressed, the battery power is applied to the u-controller IC (U3) and the one-chip transmitter IC (U1).

The u-com IC is processed to the Encode data and ID code according to the key input information, and transmit the data through the Dout pin of the IC and simultaneously transmit the high data through the CE pin which is enabled to activate the one-chip Transmitter IC (U1).

The Encoded Data from the u-controlled IC (U3) is applied to the stage of the X-tal controlled reference FM MOD OSC (X1,TC1,L5), and modulated to FSK signal which frequency is 6.99648 MHz, and converted to the 64th frequency of 447.775 MHz. The one-chip transmitter IC (U1) is consist of the pre-scaled PLL configuration.

The converted RF signal is fed to the internal Power Amp and amplified the signals, and filtered and matched there Impedance by the Antenna Matching circuit (L1-4,C1,2,4,5) and radiated from the Antenna.