

## CIRCUIT DESCRIPTION

The 5818MN-LF is operated from a single 1.5 V AAA Battery. A Dc to DC Converter (U1) produces 3.0V DC for the rest of the circuit. Messages are encoded by our standard Message ASIC (U2) The Message timing and Duty Cycle will be shown in EXHIBITS; 3-1&-2. The transmitter section of the 5818MN-LF consists of a single chip (U3) which contains a PLL, buffer, and PA. The Frequency Determining Element is a 10.78125 Mhz. Crystal (YL1). PA output matching and antenna coupling is done by: L1, C22, L2, C21, and C13.