

## CIRCUIT DESCRIPTION

This 5820 is identical to the previous 5820 except that we are now using Lead-Free / RoHS Compliant components. It is operated from a single 1.5 V AAA Battery. A Dc to DC Converter produces 3.0VDC for the rest of the circuit. Messages are encoded by our standard Message ASIC (U2) Message timing and Duty Cycle will be shown in EXHIBITS; 3-1 & 3-2. The transmitter section of the 5820 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, C20, and C13.