

Circuit Description

The Microprocessor (U1) reads input commands (SW1/SW2/W3/W4, Figure 1), and then encodes them to digital codes. The codes are sent to RF oscillator via pin 8 of U1, R8 and then modulates 27.045~27.225MHz carrier frequency signal via Q1 (Figure 2) to achieve AM signal. The Radio Frequency of the transmitter is based on standard 27MHz AM citizen's band. It generates low power 27.045~27.225MHz AM carrier frequency via major components of Q1, T2, L1, C9, C10, C13, R2, and R7 etc. Please note that the value of the components may vary. Please see the attached schematics for more detail. The AM signal is passed to RF amplifier (Q2, C3, R6 and L3), which amplifies the signal and then couples the signal into the antenna (ANT1) via components C7, C1, L2, C8 and L5.