

EL125 Rock Crawler, 27MHz Transmitter Operation Description

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The Radio Frequency of the transmitter is based on standard 27MHz AM (Amplitude Modulation) citizen's band. It generates low power 27MHz AM carrier frequency via major components of CRY, L1, R6, R7, Q1, C5 and C6 (Figure 1).

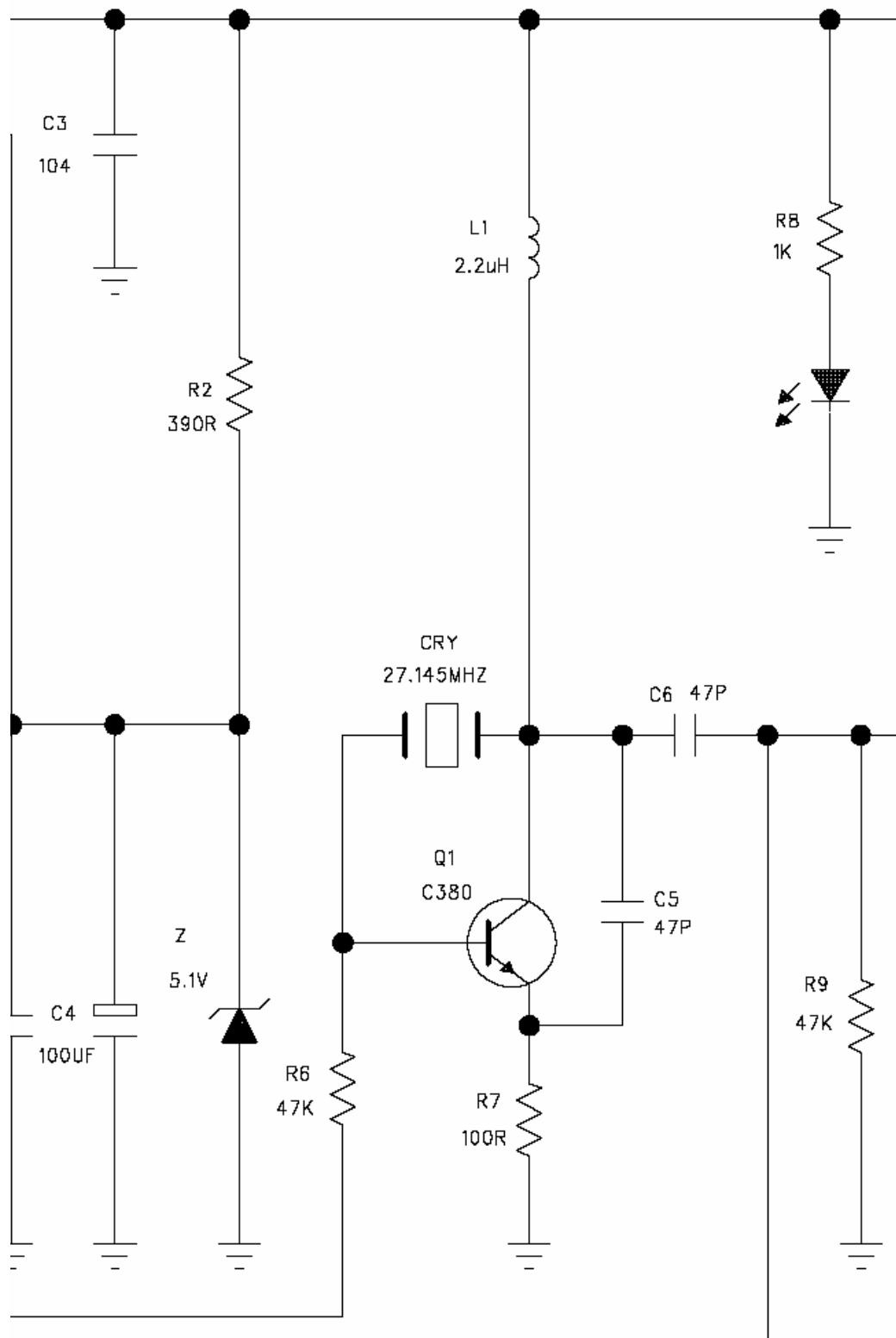


Figure 1

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The Encoder (U1, Figure 2) reads input commands and modulates these commands (intelligent) with the carrier frequency to the RF amplifier (Figure 3).

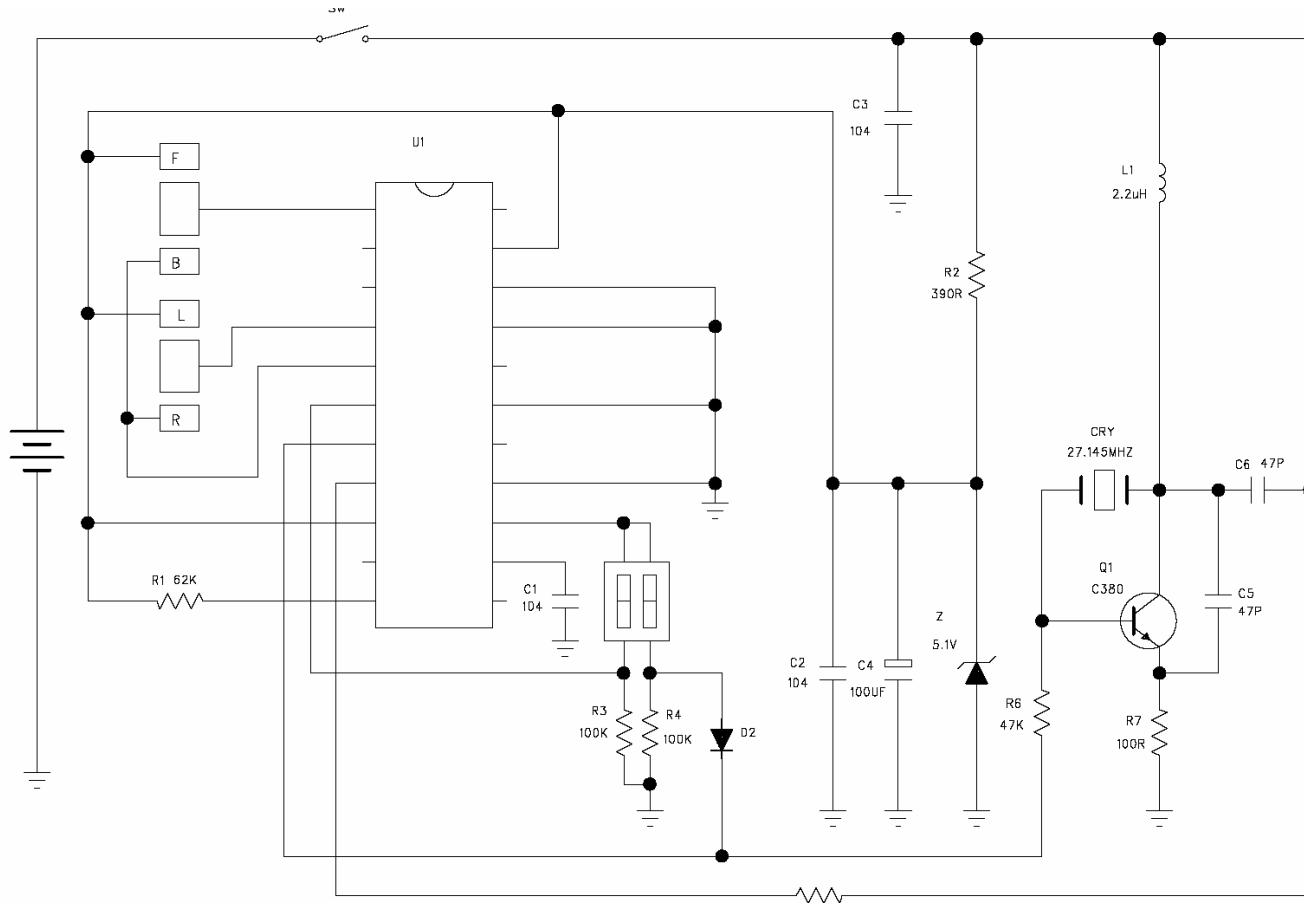


Figure 2

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The modulated signal is passed to the final stage of RF amplifier (Figure 3), which amplifies (Q2, L2, R9, R10, C7 and C8) the signal and then couples the signal into the antenna (ANT1) via components L3, L4, C10 and C11.

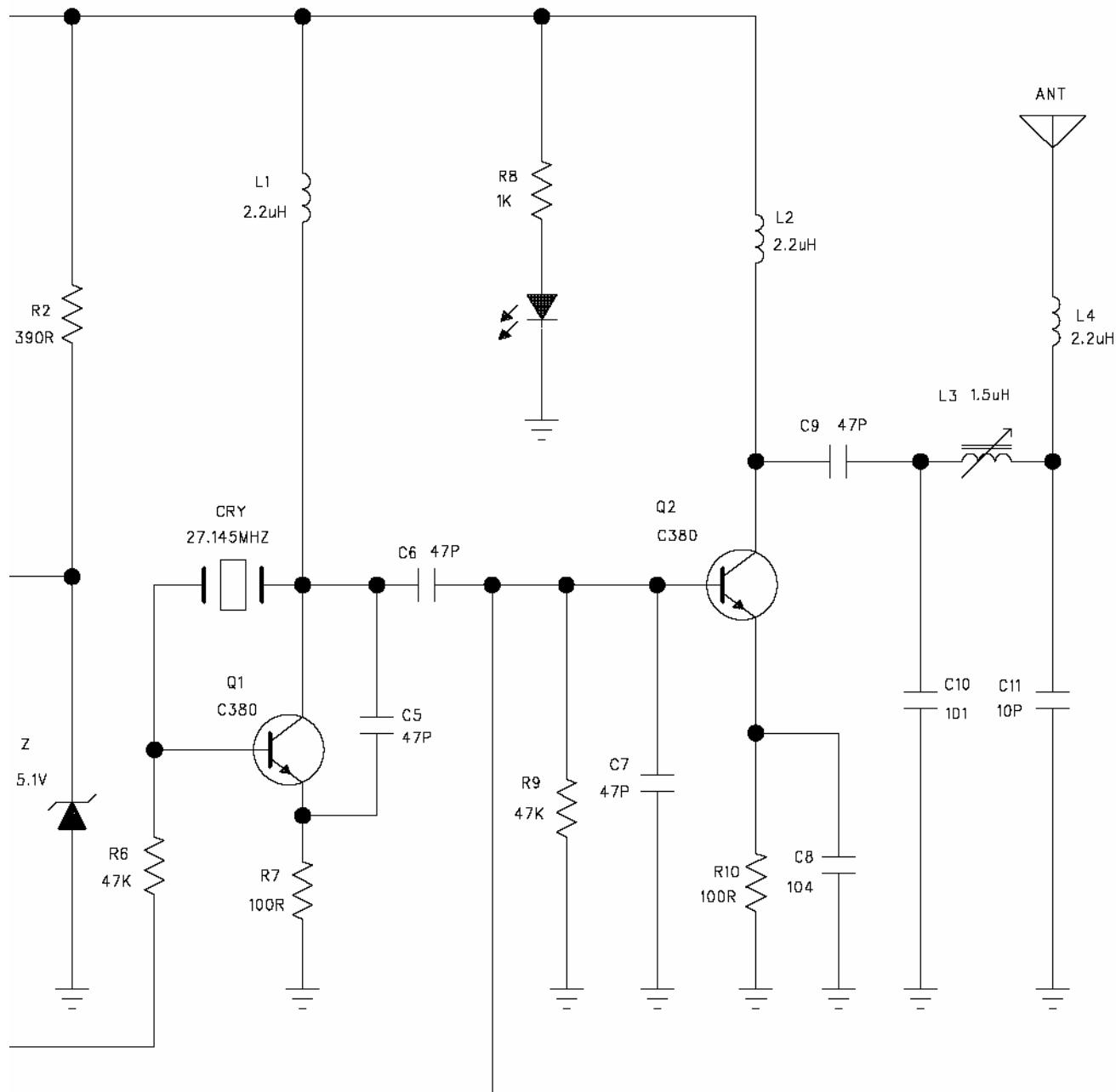


Figure 3