

EL189 RC T-Rex, 27MHz Transmitter Operation Description

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The Microprocessor (U1, Figure 1) reads input commands (S2/S3/S4/S5/S6/S7/S8/S9, Figure 1) and modulates via Q2 (Figure 2) to achieve FSK signal output.

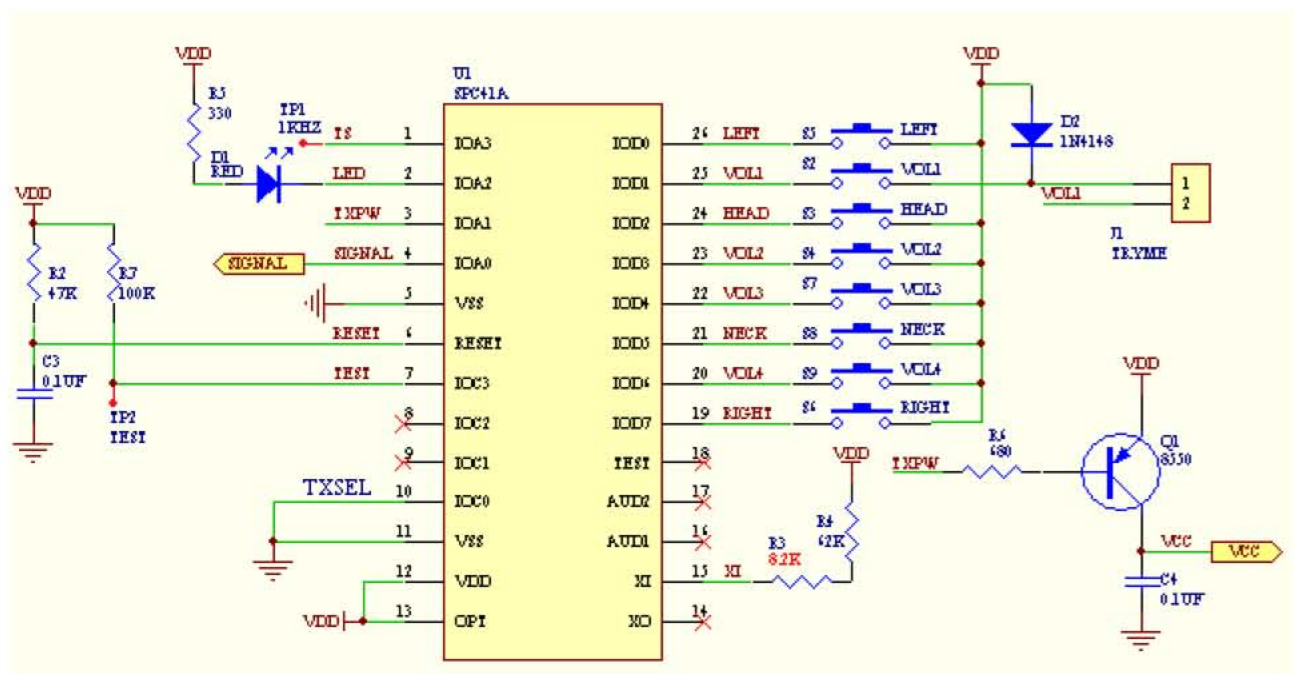


Figure 1

The Radio Frequency of the transmitter is based on standard 27MHz FM citizen's band. It generates low power 27MHz FM carrier frequency via major components of Y1, D3, C8, C14, C9, L, Q1 and R2 etc. (Figure 2). Please see the attached schematics for more detail.

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The modulated signal is passed to the final stage of RF amplifier (Figure 3), which amplifies (Q4, C5, C3, C2, C10, L2, and L4 etc.) the signal and then couples this signal into the antenna.

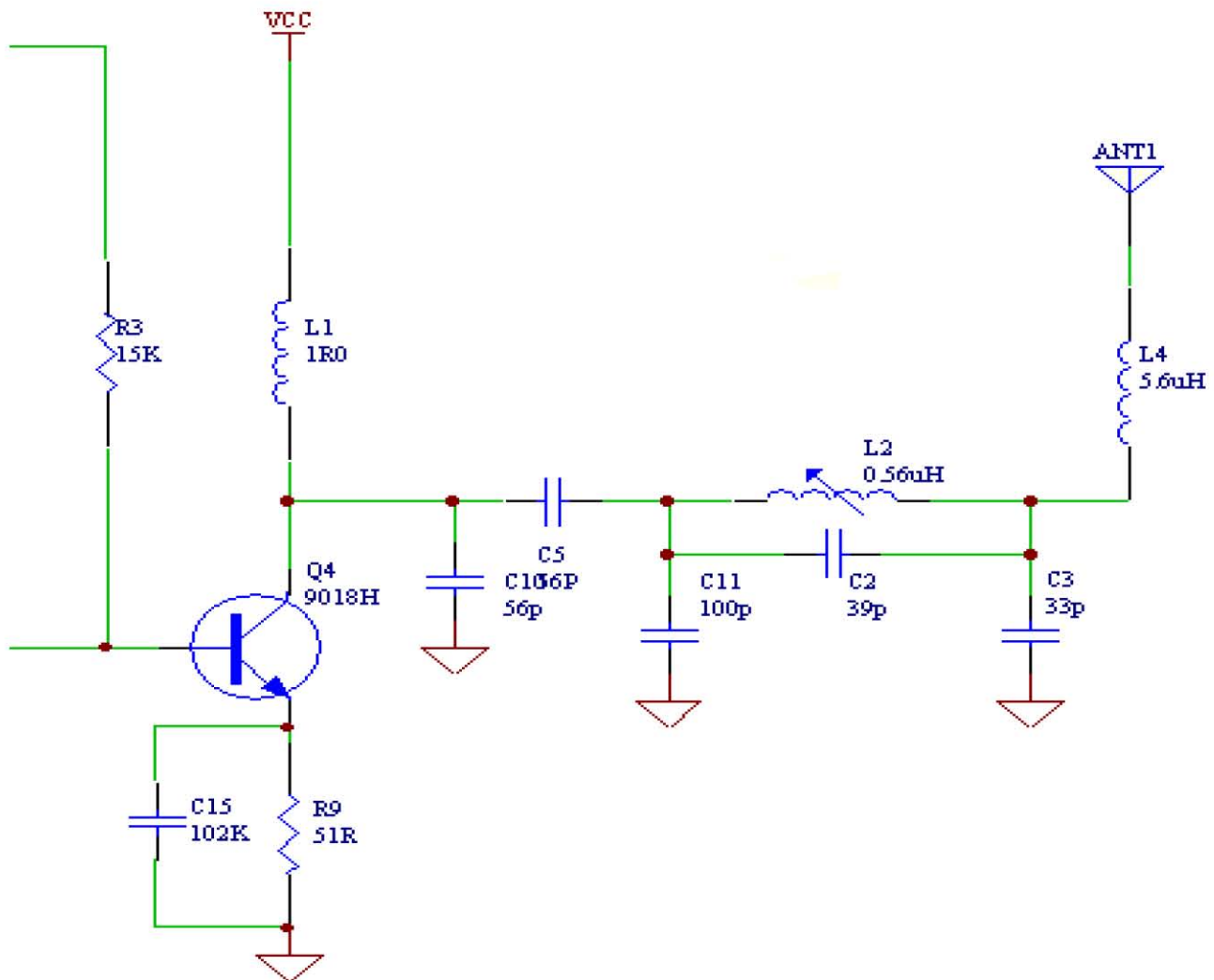


Figure 3