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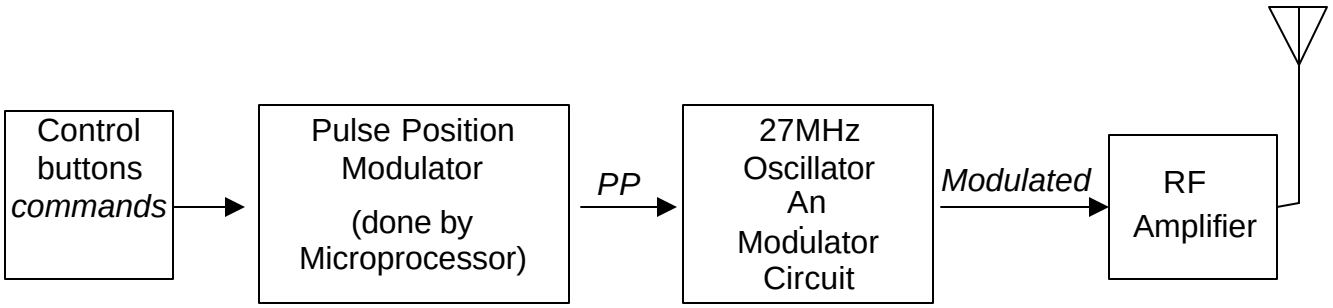
PB001 PinballMachine 27MHz AM Transmitter Block Diagram



The Radio Frequency of the transmitter is based on standard 27MHz AM (Amplitude Modulation) citizen's band. It generates 27MHz AM carrier frequency via major components of R2, R13, T2, Q1, L1, C13, C14, C9 and C10 (Figure 1)

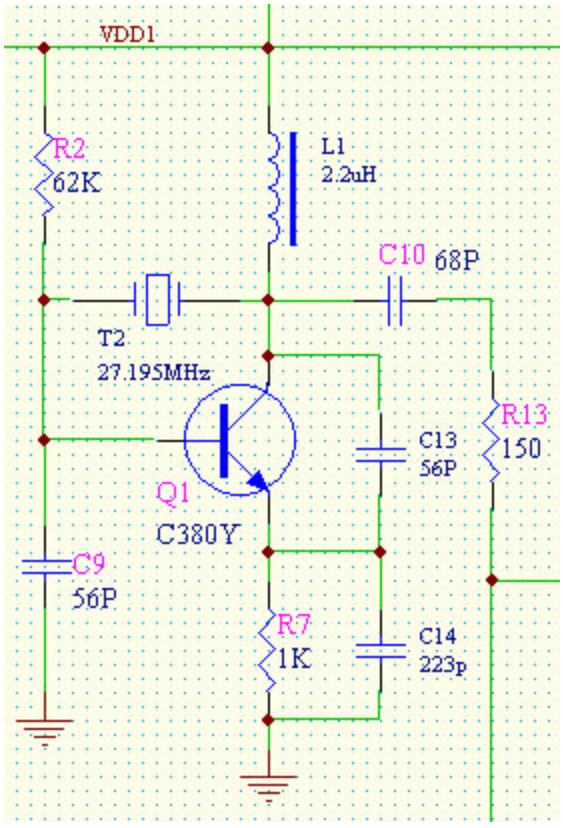


Figure 1

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The Microprocessor (U1, Figure 2) reads input commands and modulates these commands (intelligent) by switching Q2 transistor (Figure 2) to achieve conversion of Pulse Position Modulation.

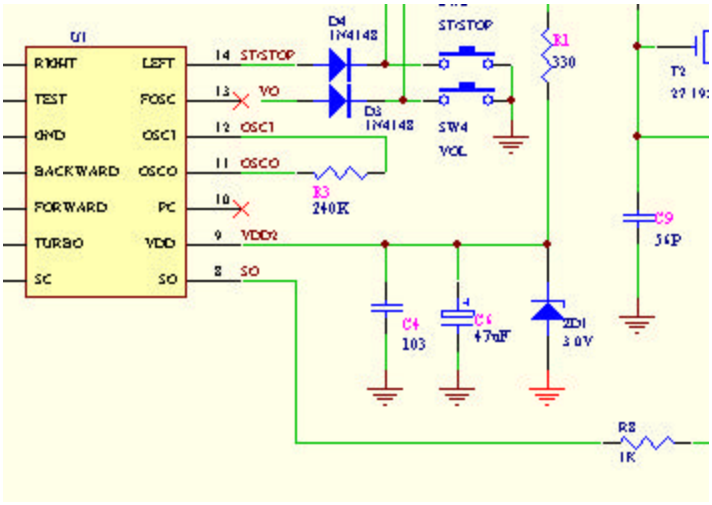

Figure 2

The modulated signal is passed to the final stage of RF amplifier (Figure 3), which amplifies (Q2) the signal and then couples this signal into the antenna (C7, C1, C2, C8, L2 and L4)

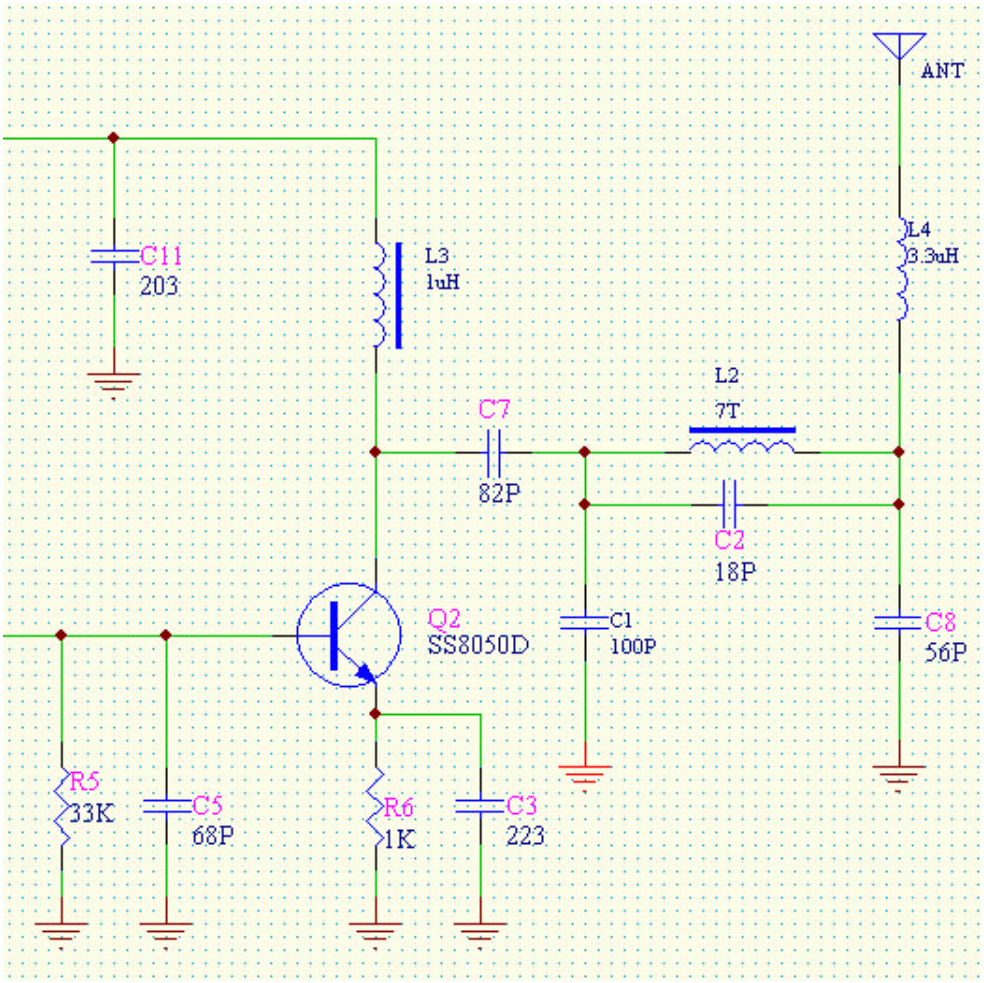

Figure 3