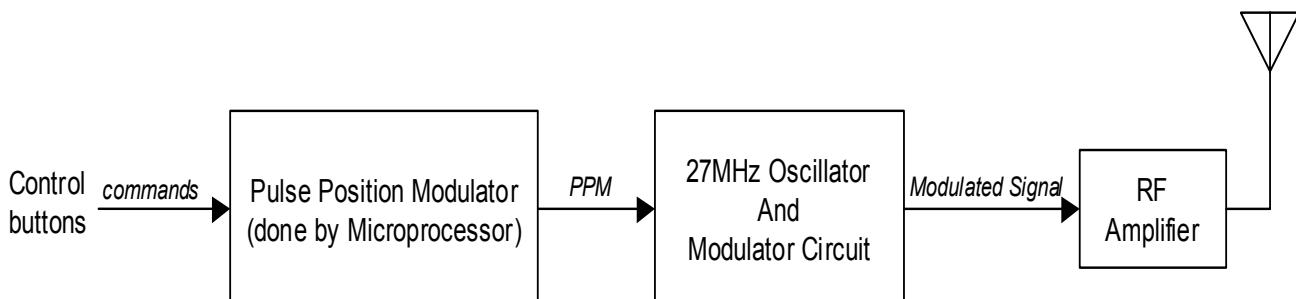


EL170 AiRider, 27MHz Transmitter Operation Description

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EL170 AiRider, 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 R46, R48, R47, T4, Q10, L6, C32, C35, C43, C001 and C30 (Figure 1)

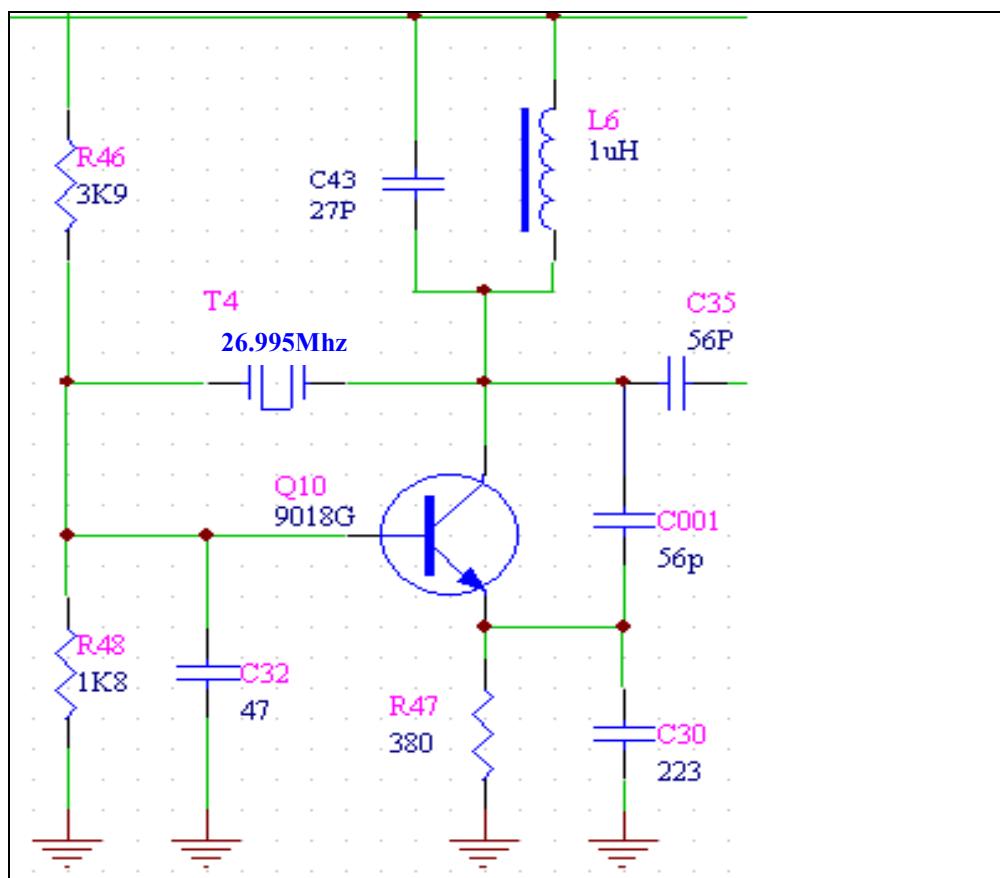


Figure 1

EL170 AiRider, 27MHz Transmitter Operation Description

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The Microprocessor (U3, Figure 2) reads input commands and modulates these commands (intelligent) by switching Q14 transistor (Figure 2) to achieve conversion of Pulse Position Modulation.

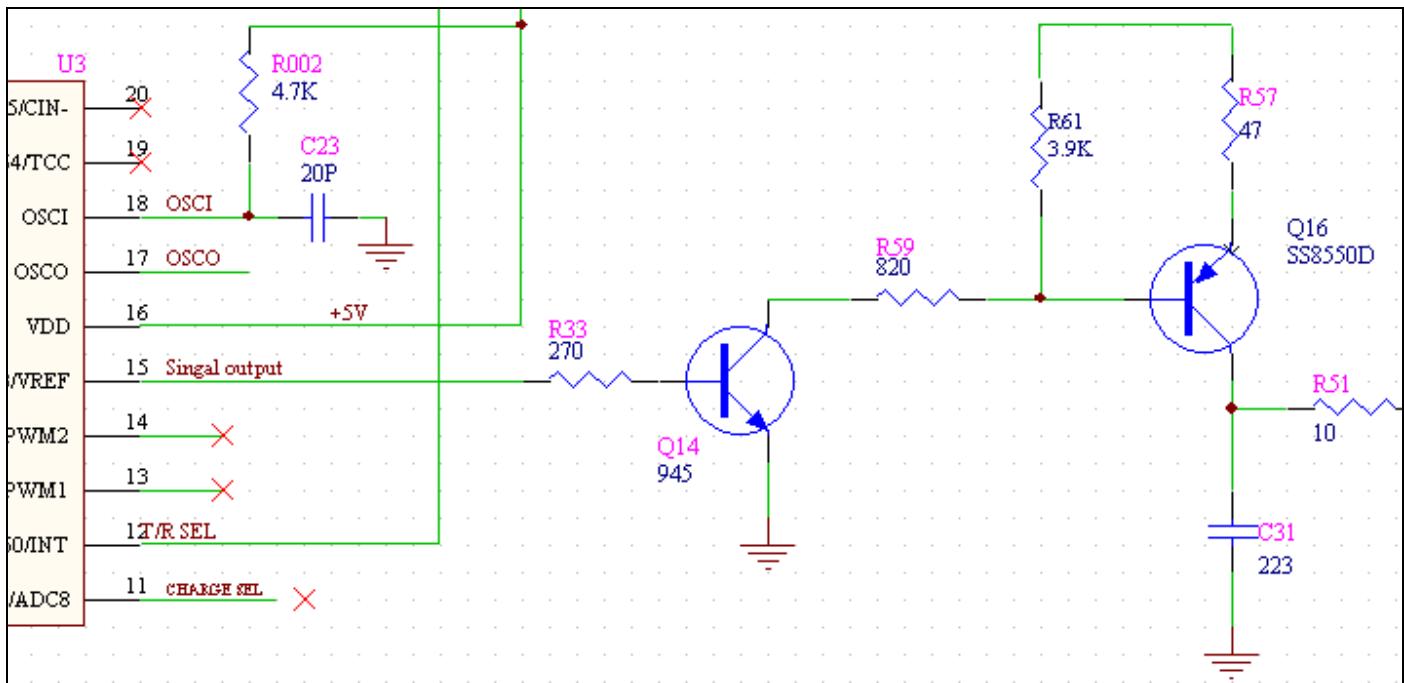


Figure 2

The modulated signal is passed to the final stage of RF amplifier (Figure 3), which amplifies (Q9) the signal and then couples this signal into the antenna (C37, C36, C42, C34, L8 and L10)

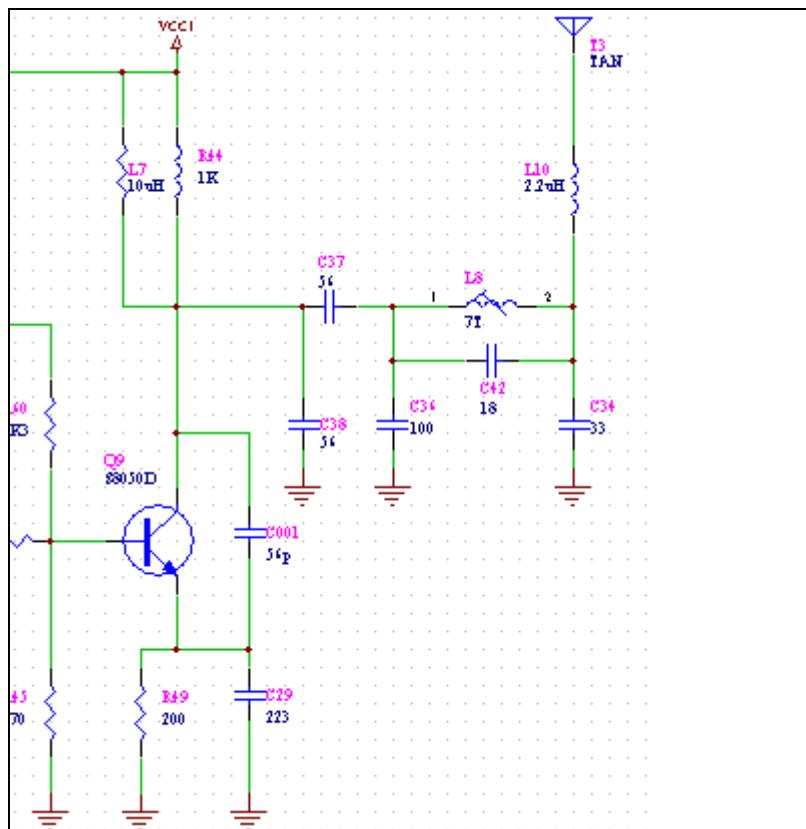


Figure 3