The Microprocessor (U1, Figure 1) reads input commands (SW2/SW3/W2/W3,Figure 1),and then encodes them to digital codes. The codes are sent to RF oscillator via pin 6 of U1, Q6, Q7 and then modulates 27.045~27.225MHz carry frequency signal via Q1 (Figure 2) to achieve AM signal .

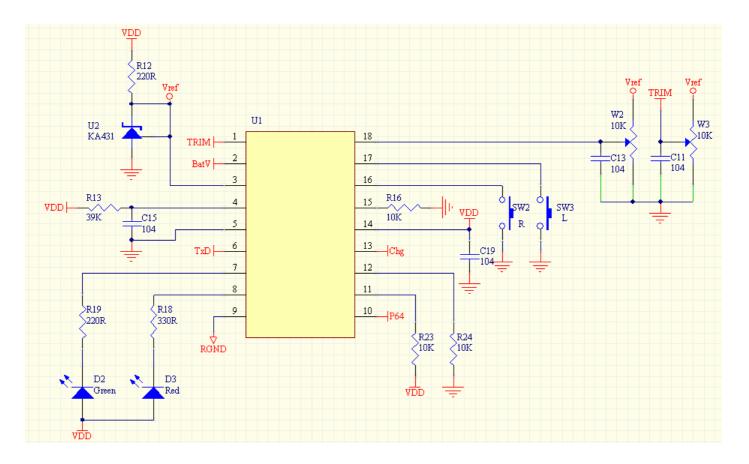


Figure 1

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, Y1, L1, C5, C21, R4, R3 and R28 etc. (*Figure 2*). Please note that the value of the components may vary. Please see the attached schematics for more detail.

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EL199 Pterosaur 27.045 ~ 27.225MHz Transmitter Operation Description

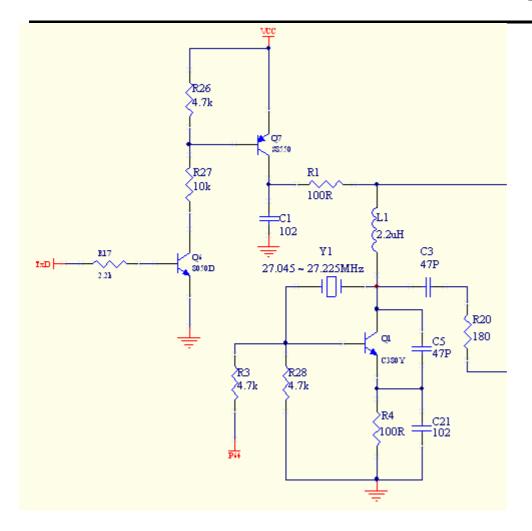


Figure 2

The AM signal (via capacitor C3) is passed to RF amplifier (*Figure 3*,Q2,C8,R9,C9 and L2), which amplifies the signal and then couples the signal into the antenna (ANT1) via components C4,C6,L4,C7 and L3.

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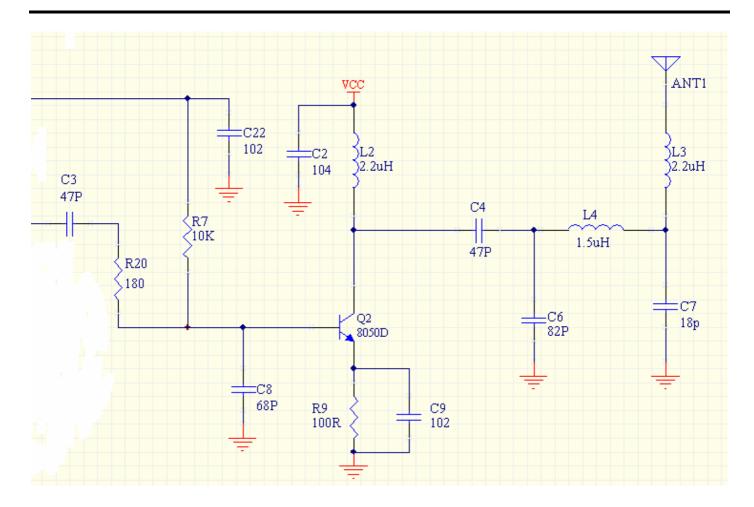


Figure 3

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