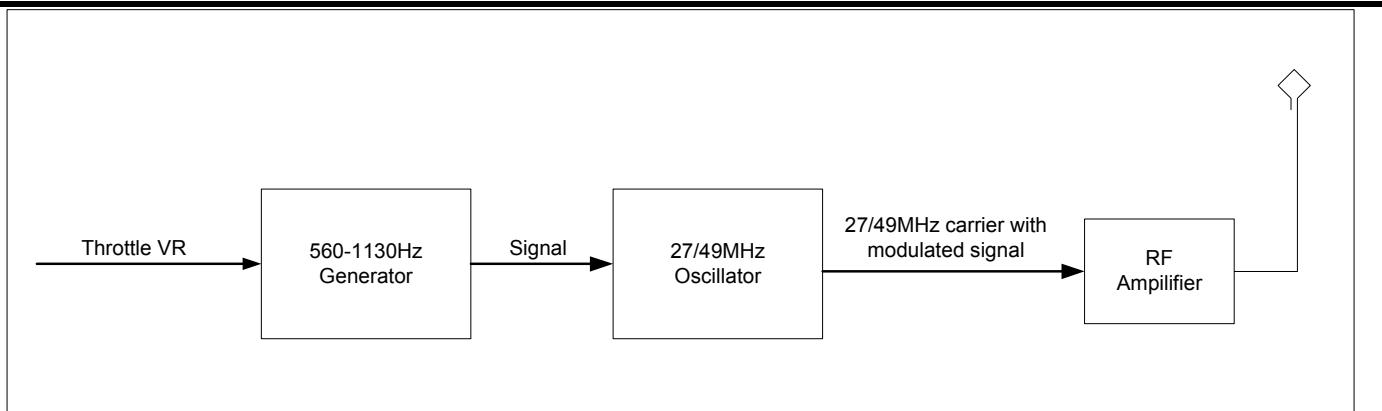


# EL137 Wireless Ultralite, 27/49MHz Transmitter Operation Description

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The Radio Frequency of the transmitter is based on standard 27/49MHz AM (Amplitude Modulation) citizen's band. It generates low power 27/49MHz AM carrier frequency via major components of CRY, R8, R10, L1, Q4, C5, C6 and C7 (**Figure 1**). Please note that the value of the components may vary. Please see the attached schematics for 27MHz and 49MHz.

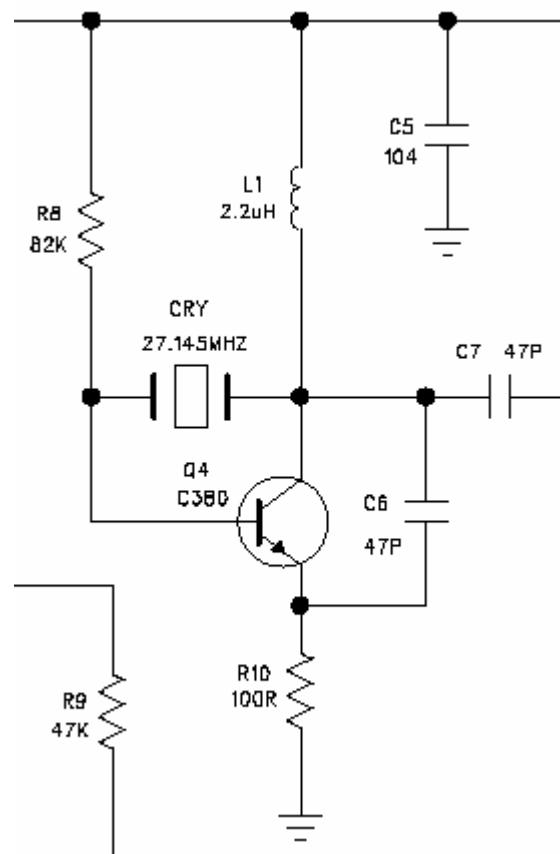


Figure 1

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The components Q2, Q3, R4, R5, R6, R7, C3, C4 and VR (*Figure 2*) are responsible to generate “Throttle” control command (Frequency vary from 560Hz to 1130KHz) and will be modulated with 27/49MHz carrier frequency to the RF amplifier (see *Figure 3*).

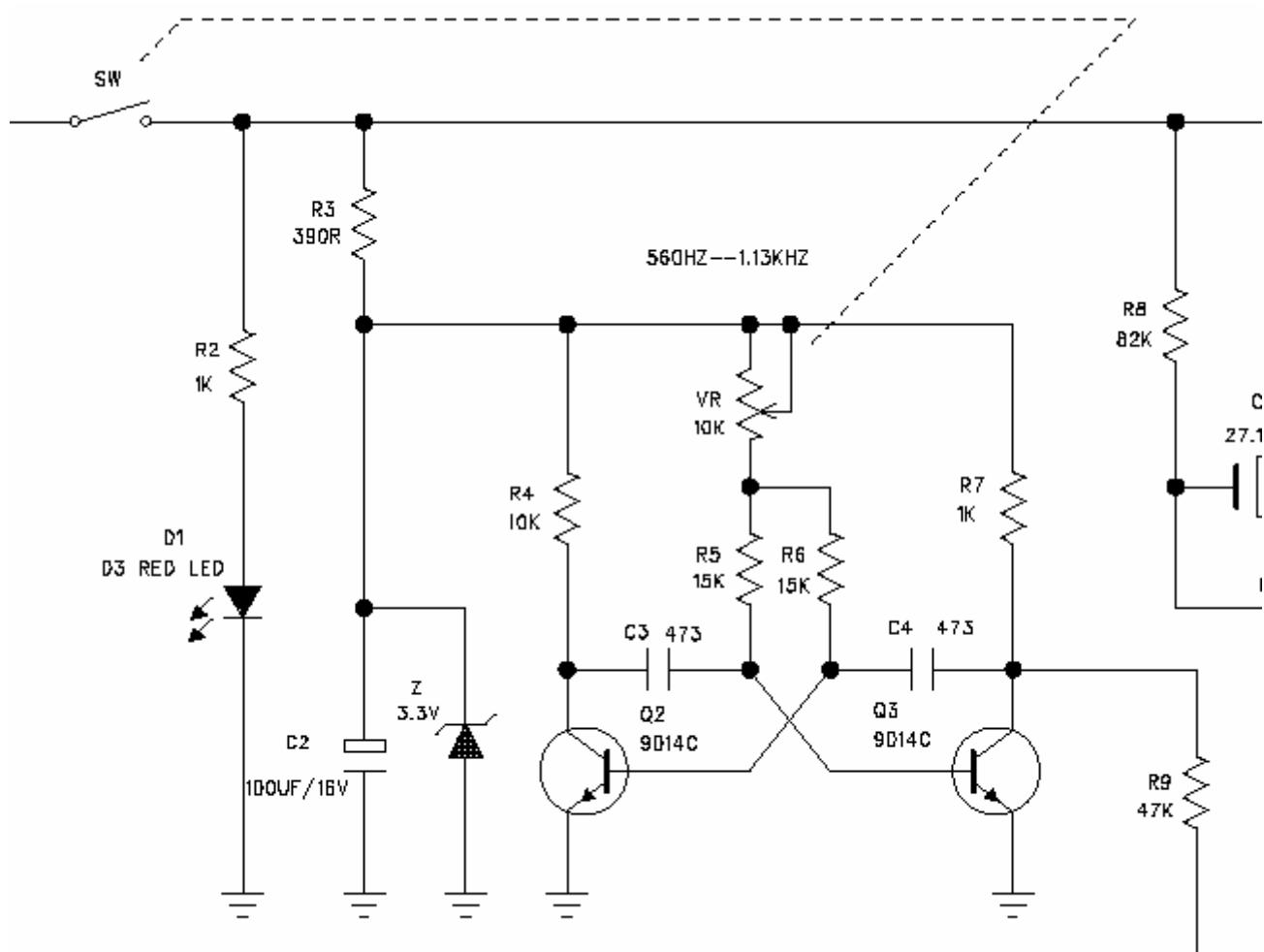


Figure 2

## EL137 Wireless Ultralite, 27/49MHz Transmitter Operation Description

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The modulated signal is passed to the final stage of RF amplifier (**Figure 3**), which amplifies (Q5, L2, C8, C9, R11 and R12) the signal and then couples the signal into the antenna (ANT) via components C10, C11, C12, L4 and L3.

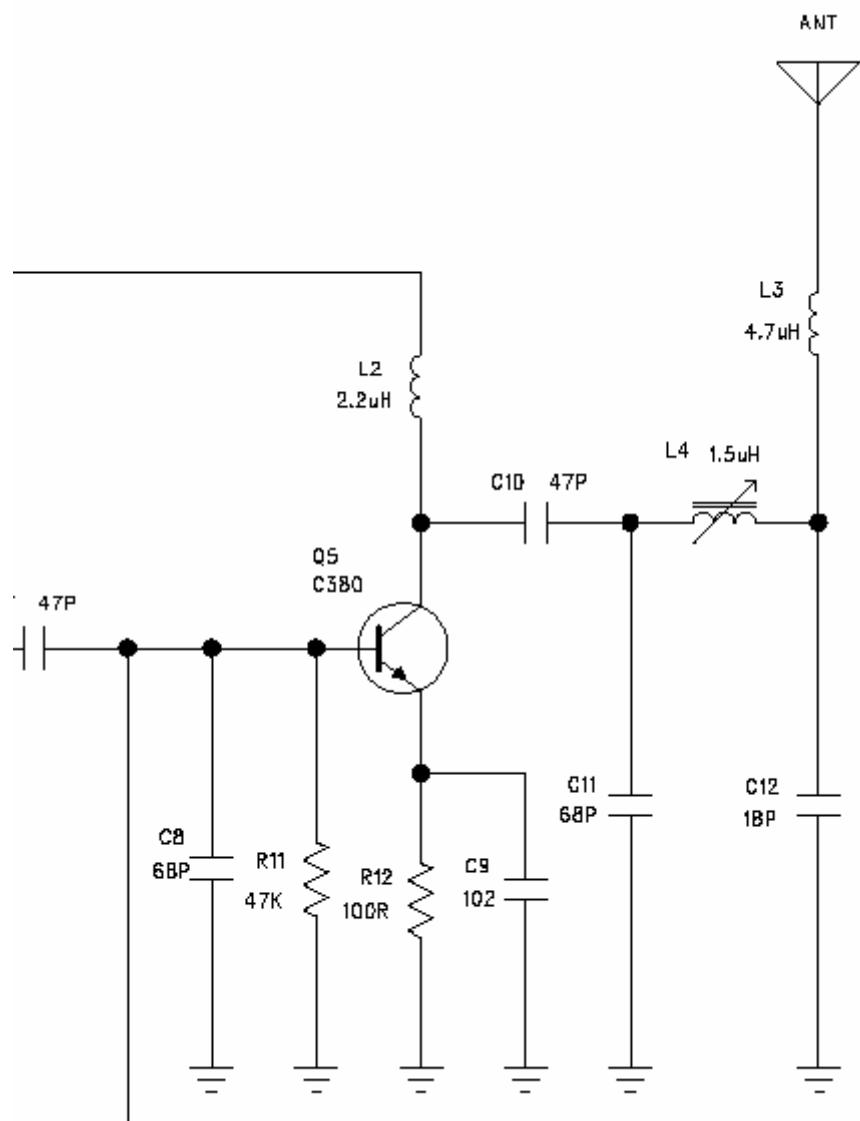


Figure 3