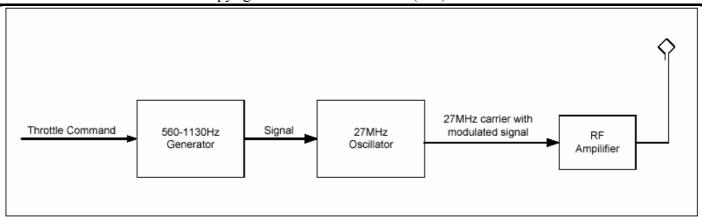
EL140 Wireless Ultralite, 27MHz Transmitter Operation Description

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The Radio Frequency of the transmitter is based on standard 27MHz FM (Frequency Modulation) citizen's band. It generates low power 27MHz FM carrier frequency via major components of Y1, D1, C9, C10, C11, C12, Q1, Q2, R6, R8 and R9 (*Figure 1*). Please note that the value of the components may vary. Please see the attached schematics for more detail.

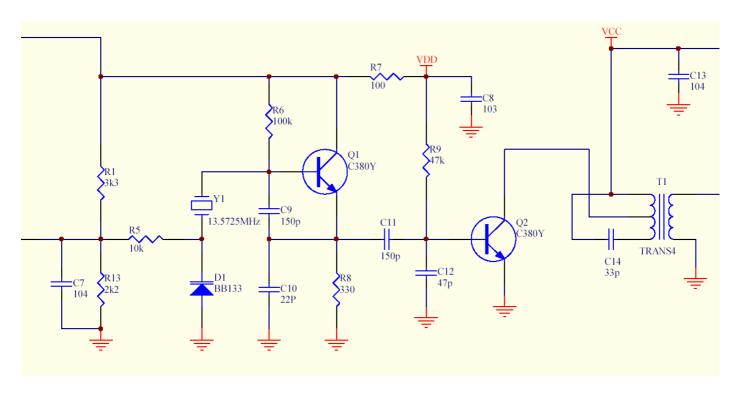


Figure 1

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The components Q4, Q5, R2, R3, R4, C4, C5 and VR1 (*Figure 2*) are responsible to generate "Throttle" control command (Frequency vary from 560Hz to 1130KHz) and will be modulated with 27MHz carrier frequency via R18, R13 and C7 to the RF amplifier (see *Figure 3*).

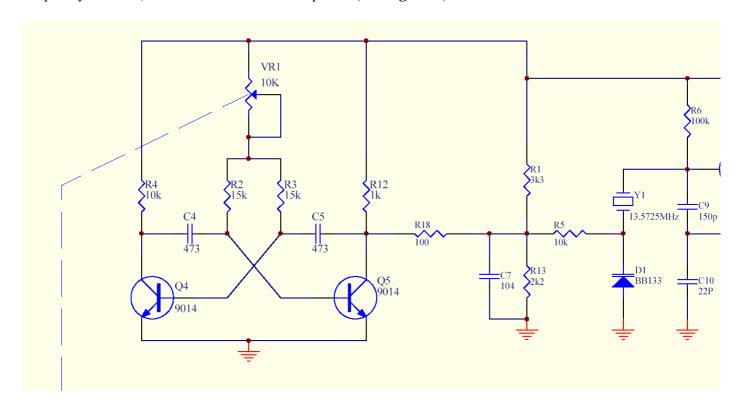


Figure 2

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The modulated signal is passed to the final stage of RF amplifier (*Figure 3*), which amplifies (Q3, T1, L2, L3, C14, C15, C16, C17, C18, C20, R10 and R11) signals and then couples the signal into the antenna (ANT).

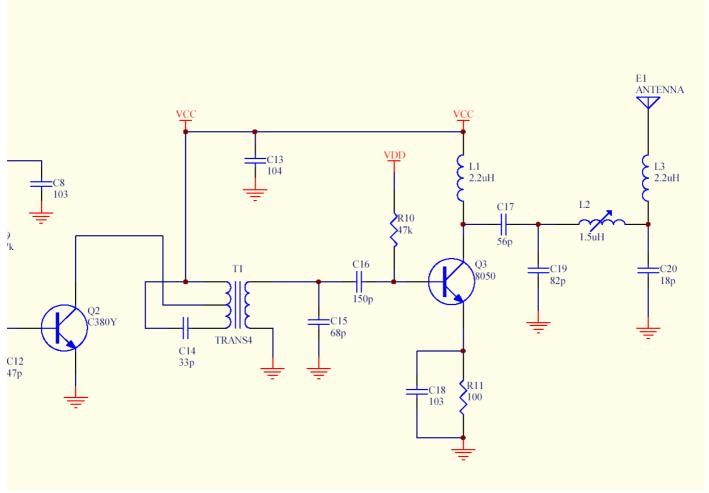


Figure 3

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