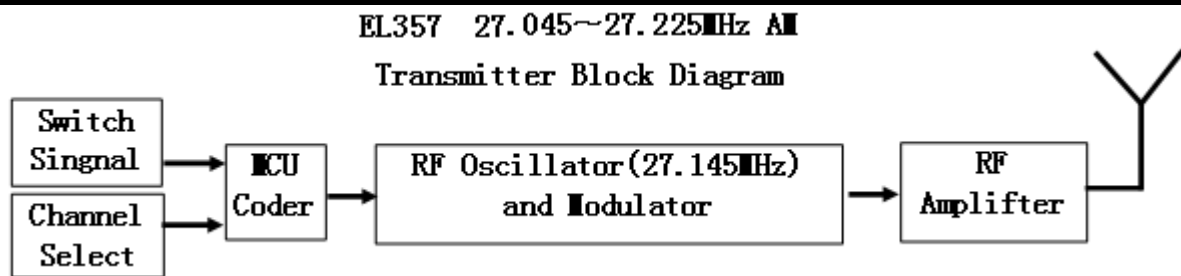


EL357 27.045 ~ 27.225MHz Transmitter Operation Description



The Microprocessor (U3, Figure 1) reads input commands (SW1/SW2/W3/W4, Figure 1), and then encodes them to digital codes. The codes are sent to RF oscillator via pin 8 of U3, R17 and then modulates 27.045~27.225MHz carry frequency signal via Q1 (Figure 2) to achieve AM signal.

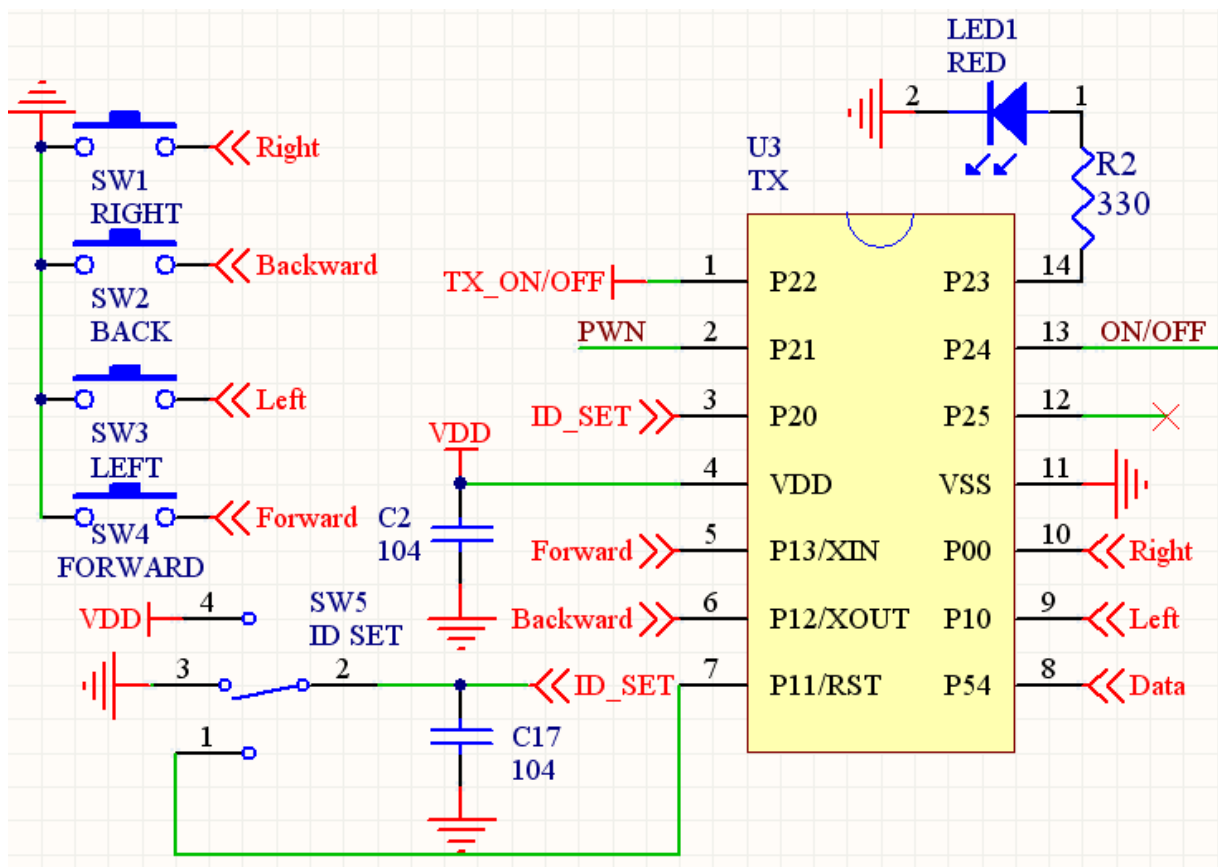


Figure 1

EL357 27.045 ~ 27.225MHz Transmitter Operation Description

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, C3, R3, R28, and R4 etc. (**Figure 2**). Please note that the value of the components may vary. Please see the attached schematics for more detail.

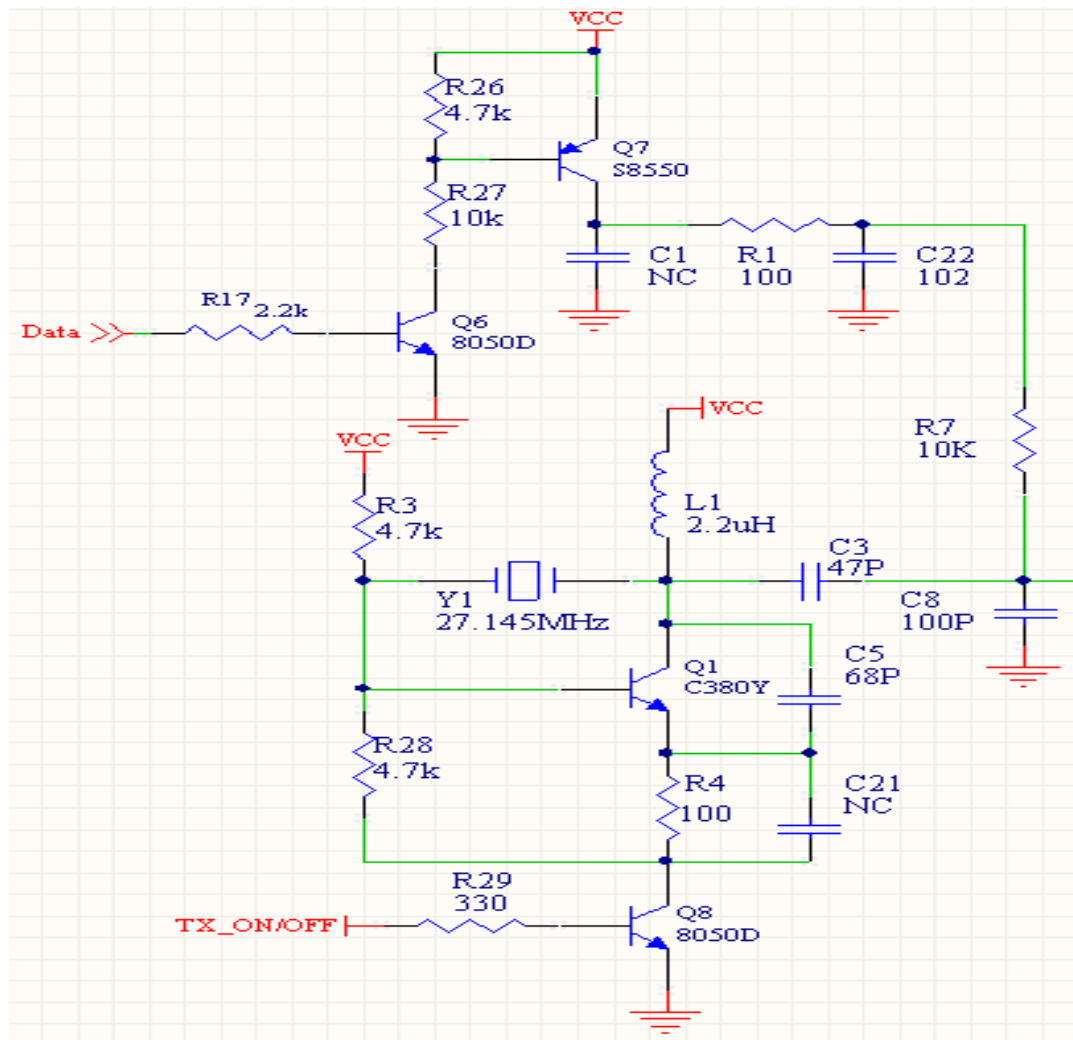


Figure 2

The AM signal is passed to RF amplifier (**Figure 3**, Q2, C9, R9 and L2), which amplifies the signal and then couples the signal into the antenna (ANT1) via components C4,C6,C16,C7,L4 and L3.

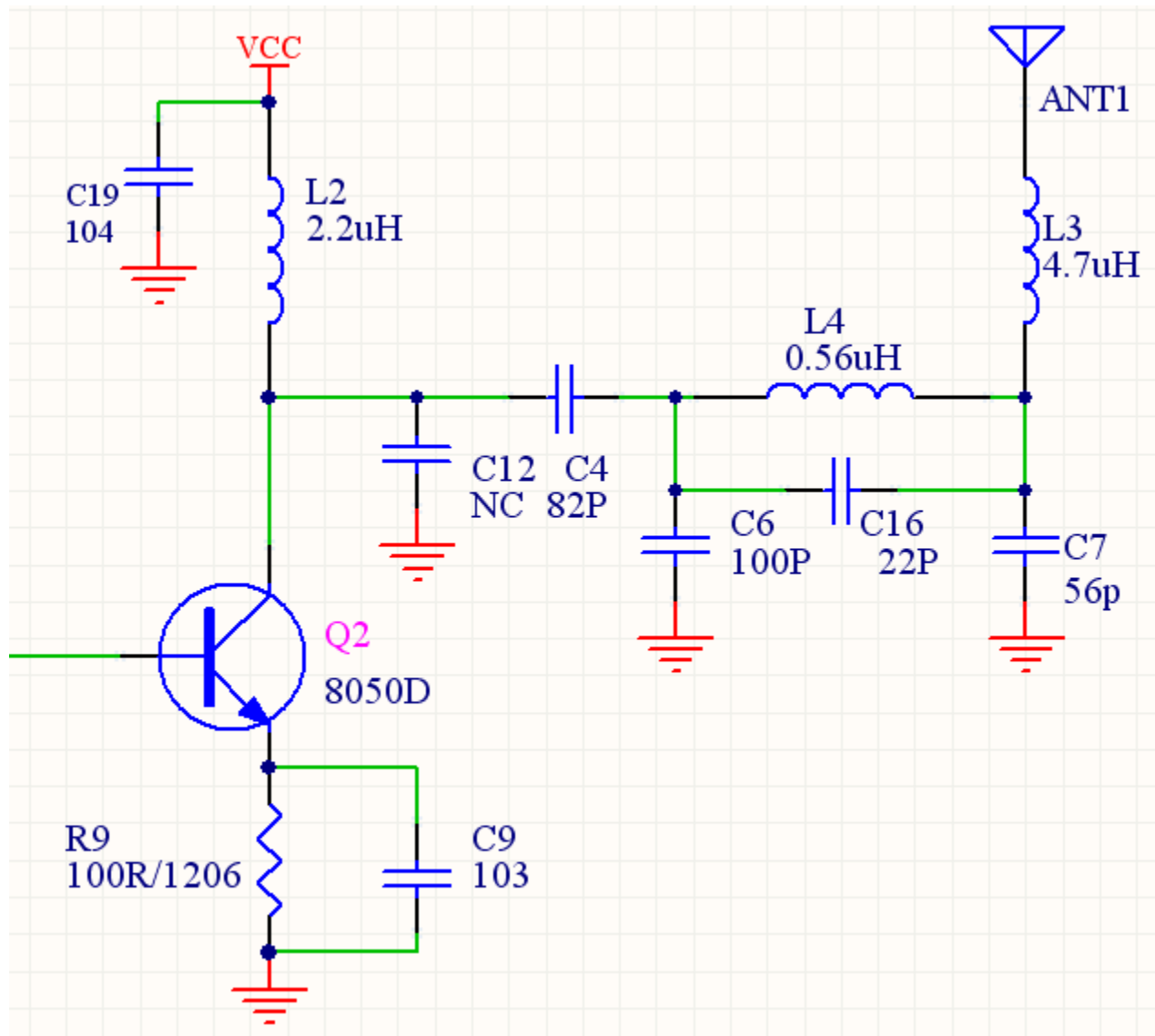


Figure 3