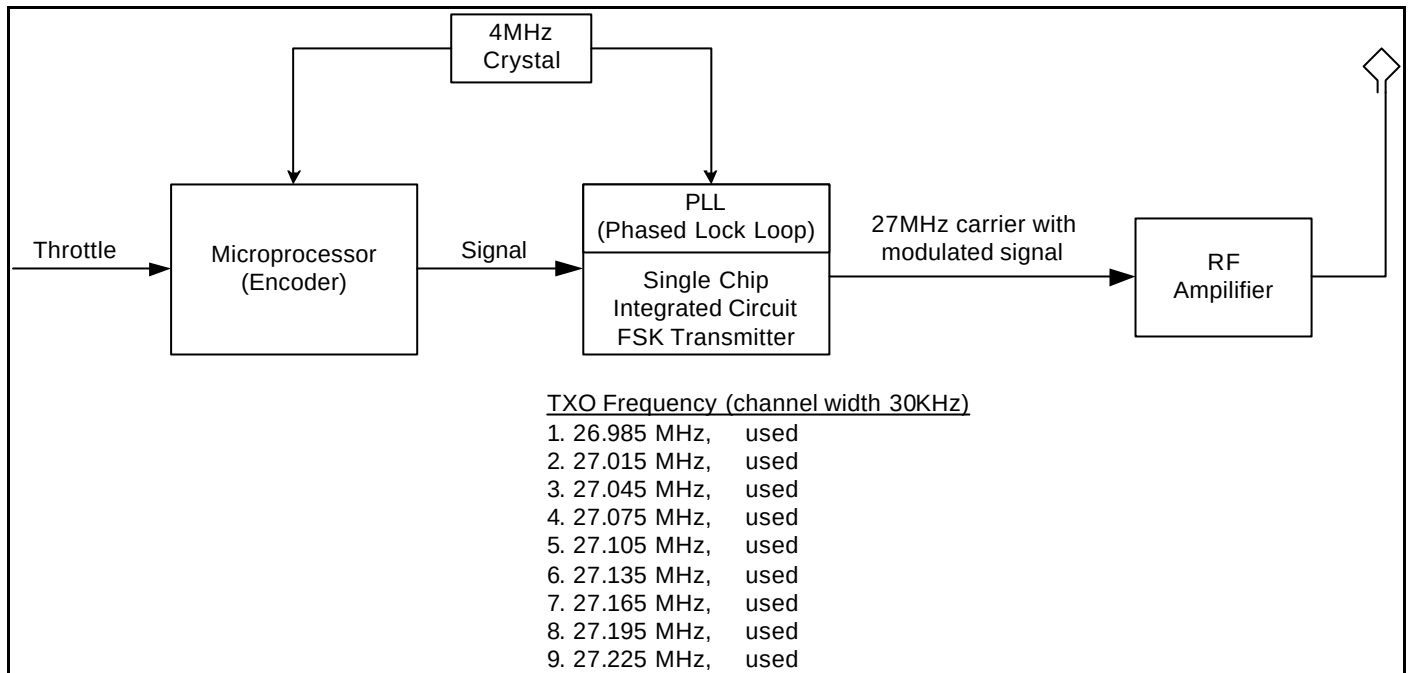
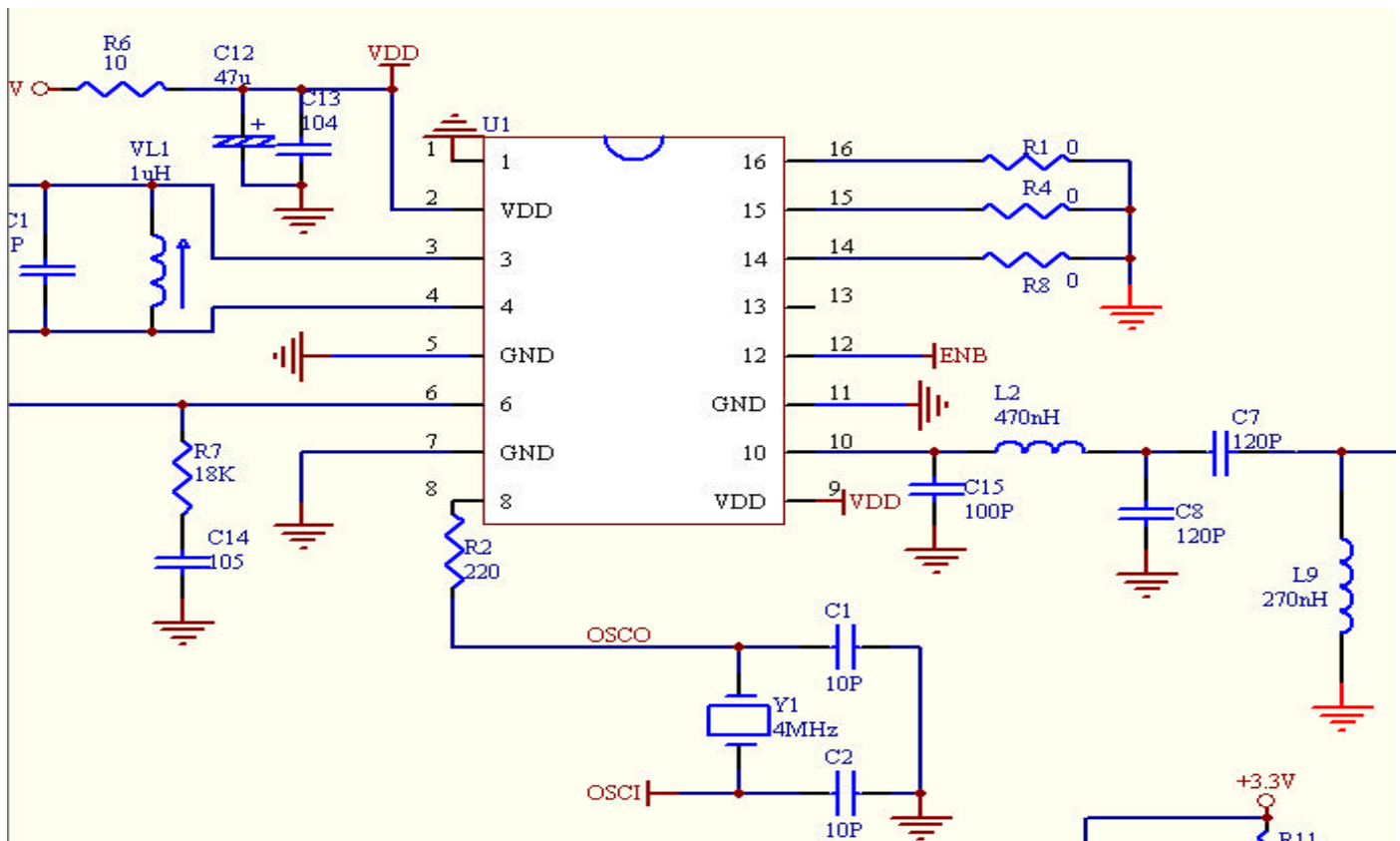


EL035RF Ultralite, 27MHz Transmitter Operation Description

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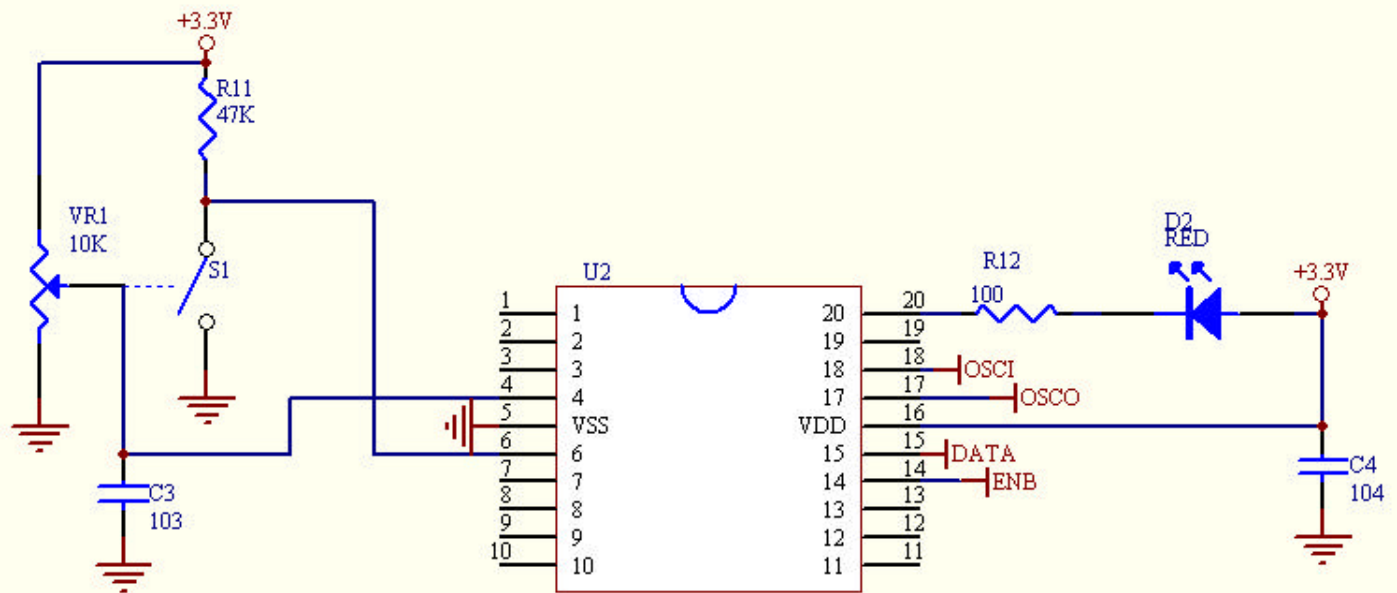
The Radio Frequency of the transmitter is based a low cost single-chip Integrated Circuit (**U1**) to establish a 27MHz frequency-agile RF link. It can generate 27MHz FSK carrier frequency via its internal Phased-Lock Loop frequency divider and external components crystal (**Y1**, shared with Microprocessor), Resistor (**R2**), capacitors (**C1**, **C2**). The carrier frequency (*TXO Frequency*) can be selectable from 26.985 MHz to 27.225MHz with typical channel spacing of 30KHz via input pins of 13, 14, 15 and 16 (**U1**).



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The Microprocessor (**U2**) reads input signal from variable resistor (**VR1**) and modulates the output signal via I/O pin 15 (U2, DATA) to the RF transmitter IC (**U1**).



The RF Transmitter (**U1**) synthesizes 27MHz FSK carrier frequency via its output pin 10 (TXO) to the final stage of RF amplifier, which amplifies (**Q1**) the signal into the antenna (C31, C30, C20, C19, C18, R15, L3 and L15).

