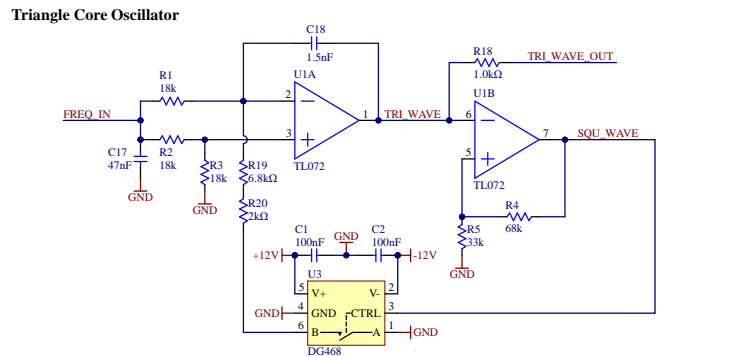


Power Input

The diagram shows a power input circuit. A 3-pin Synch Power Header is connected to a dual diode bridge rectifier. The header pins are labeled HI (+12V), GND, and -12V. The rectifier consists of four 1N4V diodes (D1, D2, D3, D4) and four capacitors (C13, C14, C15, C16). The output is connected to a +12V rail (C13, 100nF) and a -12V rail (C16, 100pF).



Wave Shaping Circuits

The diagram illustrates a multi-stage wave shaping circuit. It begins with a triangular wave (TRI_WAVE) input to a Schmitt trigger (U6). The output of this stage is a square wave (SQU_WAVE). This square wave is then buffered by an emitter follower (Q1) and fed into the non-inverting input of a second op-amp (U2A). U2A is configured as an inverting Schmitt trigger, which produces a sawtooth wave (SAW_WAVE_OUT). Finally, this sawtooth wave is buffered by a second op-amp (U2B) to produce the final square wave output (SQU_WAVE_OUT). The circuit is powered by a dual supply of +12V and -12V, with decoupling capacitors (C9-C12) and various resistors (R6-R17) used for biasing and signal conditioning.

