



**W**ien Bridge on the top, excuse my predecessors for the bad spelling! Run the calculations from the video and determine the operating frequency. What is the purpose of the back to back diodes? And the 12k $\Omega$  resistor? Given that R3 is 12k $\Omega$  what should the feedback resistance be for oscillation?

**P**hase Shift Oscillator at the bottom. Calculate the frequency of operation after watching the video. What purpose do the back to back diodes serve? Why are they in series with the 27k $\Omega$  resistor and not in parallel as with the Wien Bridge? Hook up each board and explore!

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