

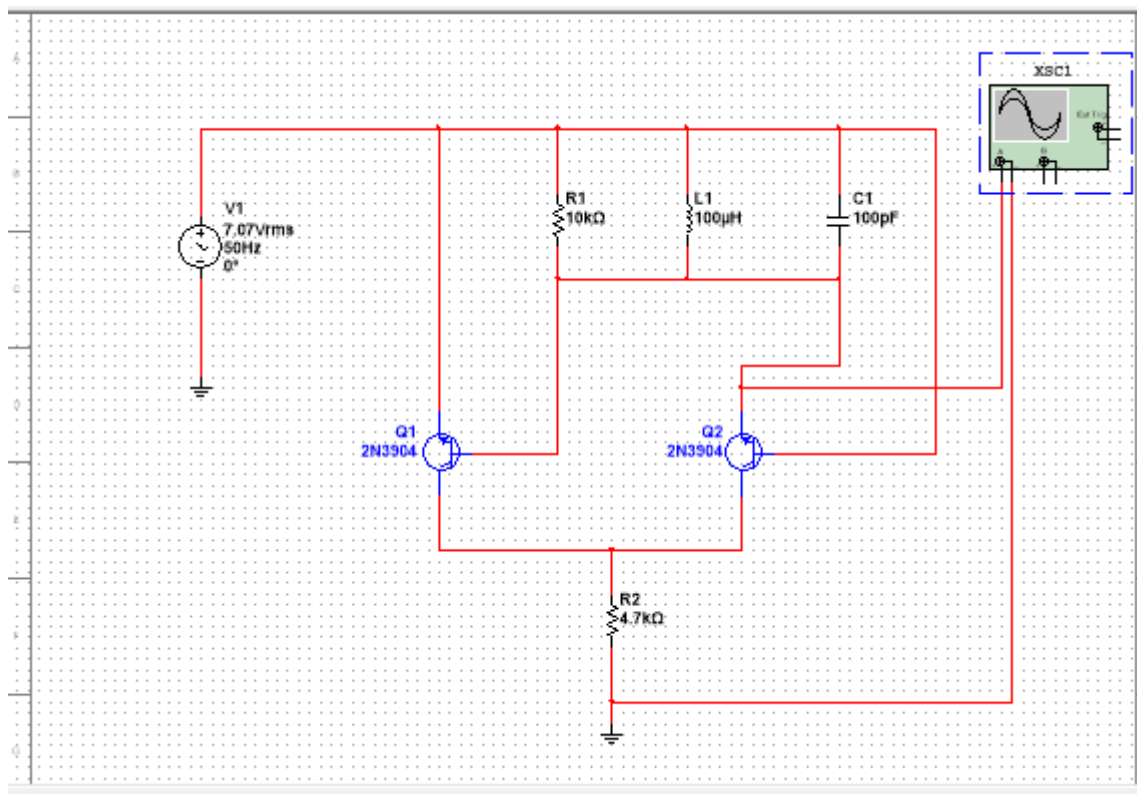
# PELTZ OSCILLATOR

## THEORY

Peltz oscillator –This oscillator differs from the colpitts, clap and Hartley oscillators in that it uses two transistors rather than a single amplifying device. Like other oscillators the objective is to provide the combined gain greater than unity at the resonant frequency so as to sustain oscillation.

One transistor may be configured as a common base amplifier and the other as an emitter follower. The LC tank with minimal impedance at the resonant frequency presents a heavy load to the collector. The output of the emitter follower connected back to the input of the common base transistor maintains oscillation in the peltz circuit.

## CIRCUIT DIAGRAM



## OUTPUT GRAPH

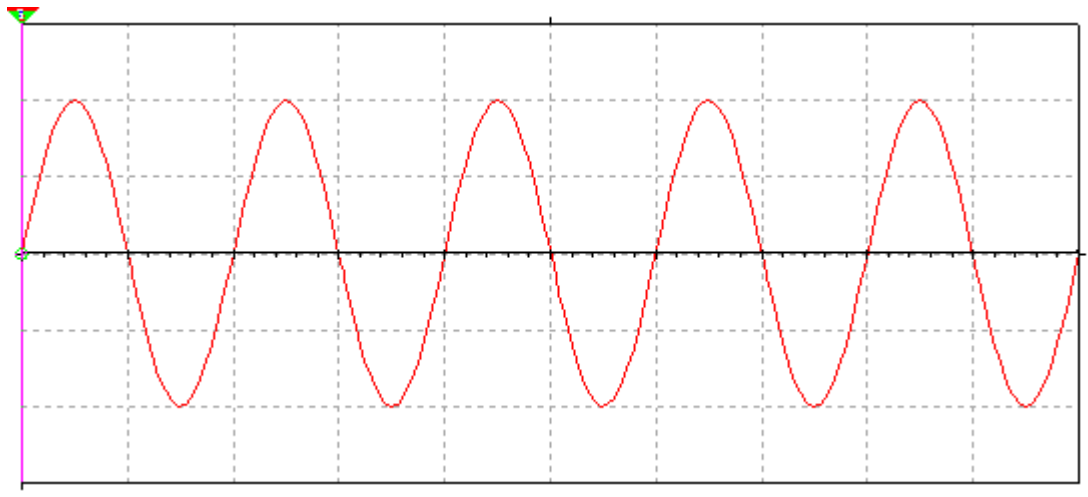


Figure 2: output waveform of peltz oscillator

### CONCLUSION

Thus the above graph give simulated output of Peltz oscillator.

### REFERENCE

[www.testandmeasurementtips.com](http://www.testandmeasurementtips.com)