Project Report

SET-E2

Batch: B10

Roll no of students: 230002052

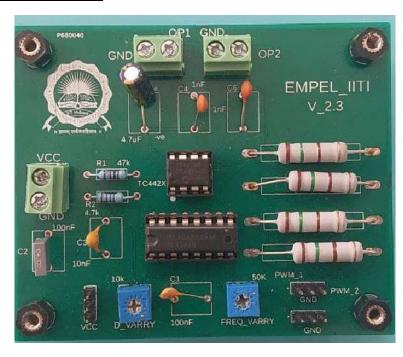
230002065 230002075 230002084 230003039

Problem Statement: Buck Converter

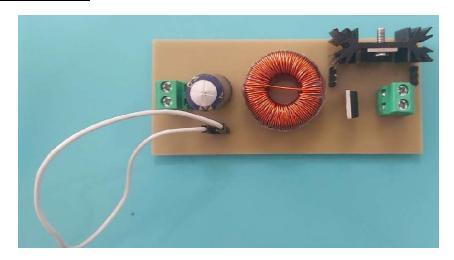
a) Specifications: Input 25 V, Output 17.5 V, Switching frequency 15 kHz, Output current 1 A.

- b) Waveforms of inductor current and diode voltage in CCM.
- c) Increase load resistance to demonstrate DCM.

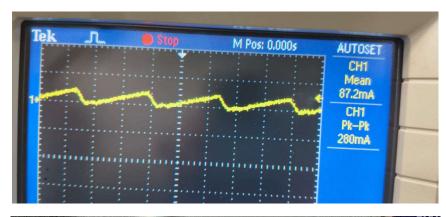
Soldered gate driver:



Buck Converter:



Waveforms: CCM



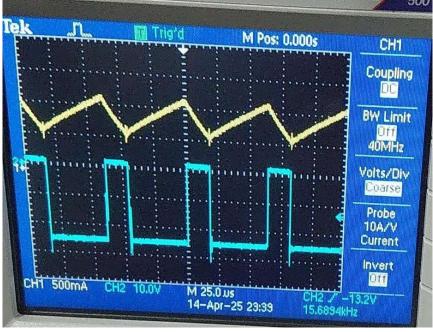




Fig: Output Voltage