EMPEL PROJECT REPORT

Set E1, E1-B1 Batch

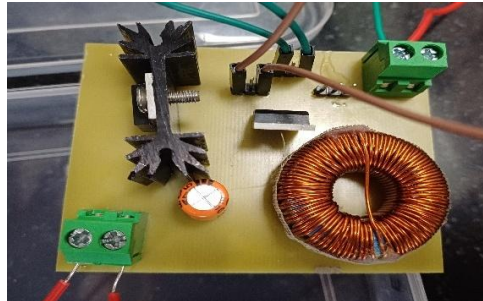Roll Nos: 230002005, 230002012, 230002021, 230002041

Problem Statement: Buck Converter

Specifications: Input 18 V, Output 12.5 V, Switching frequency 10 kHz, Output current 1 A. Waveforms of Switch current and diode voltage in CCM. Reduce switching frequency to demonstrate DCM.

Soldered Gate Driver	Converter board

Diode voltage waveform	Switching current waveforms

Waveforms in CCM

Waveforms in DCM