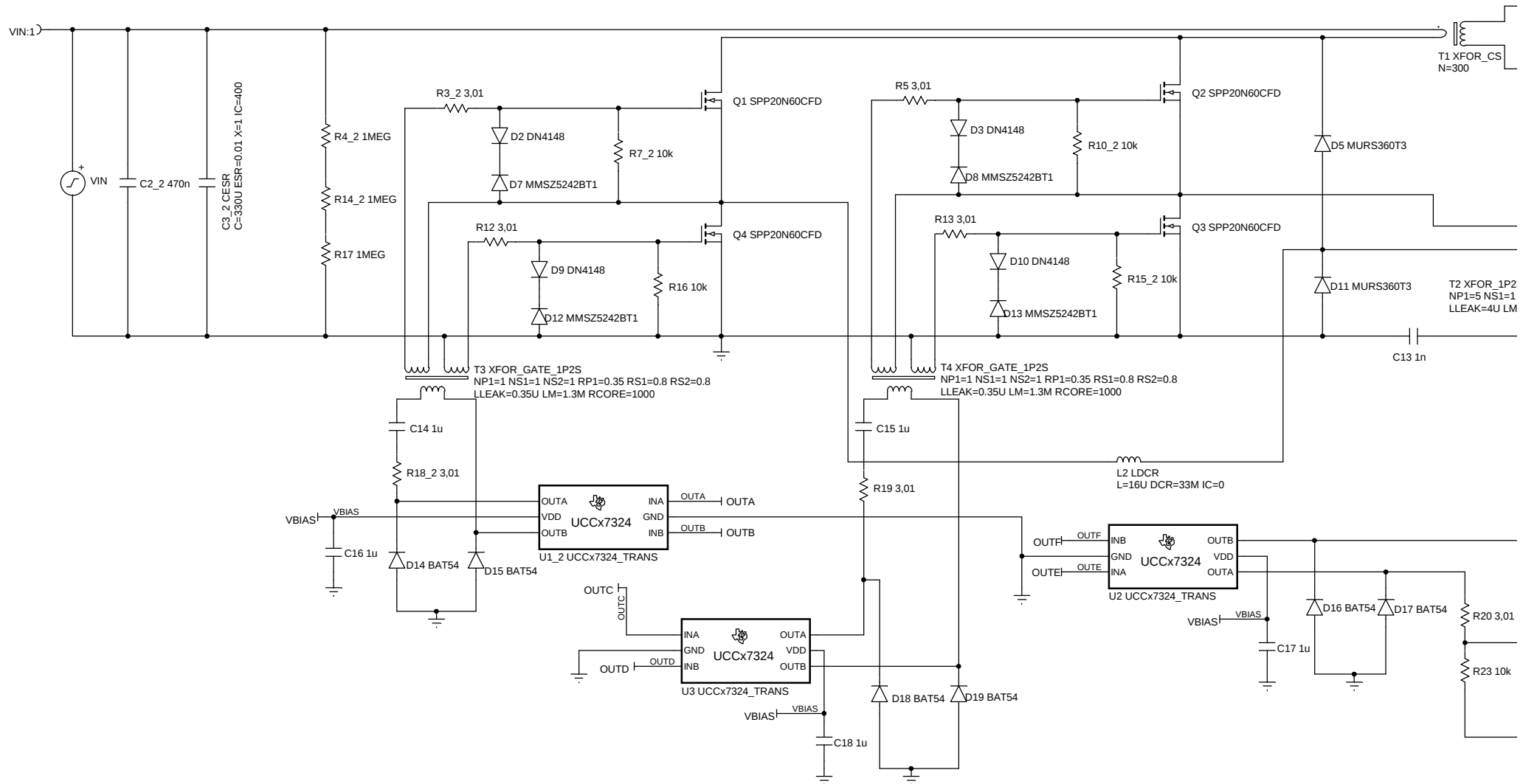
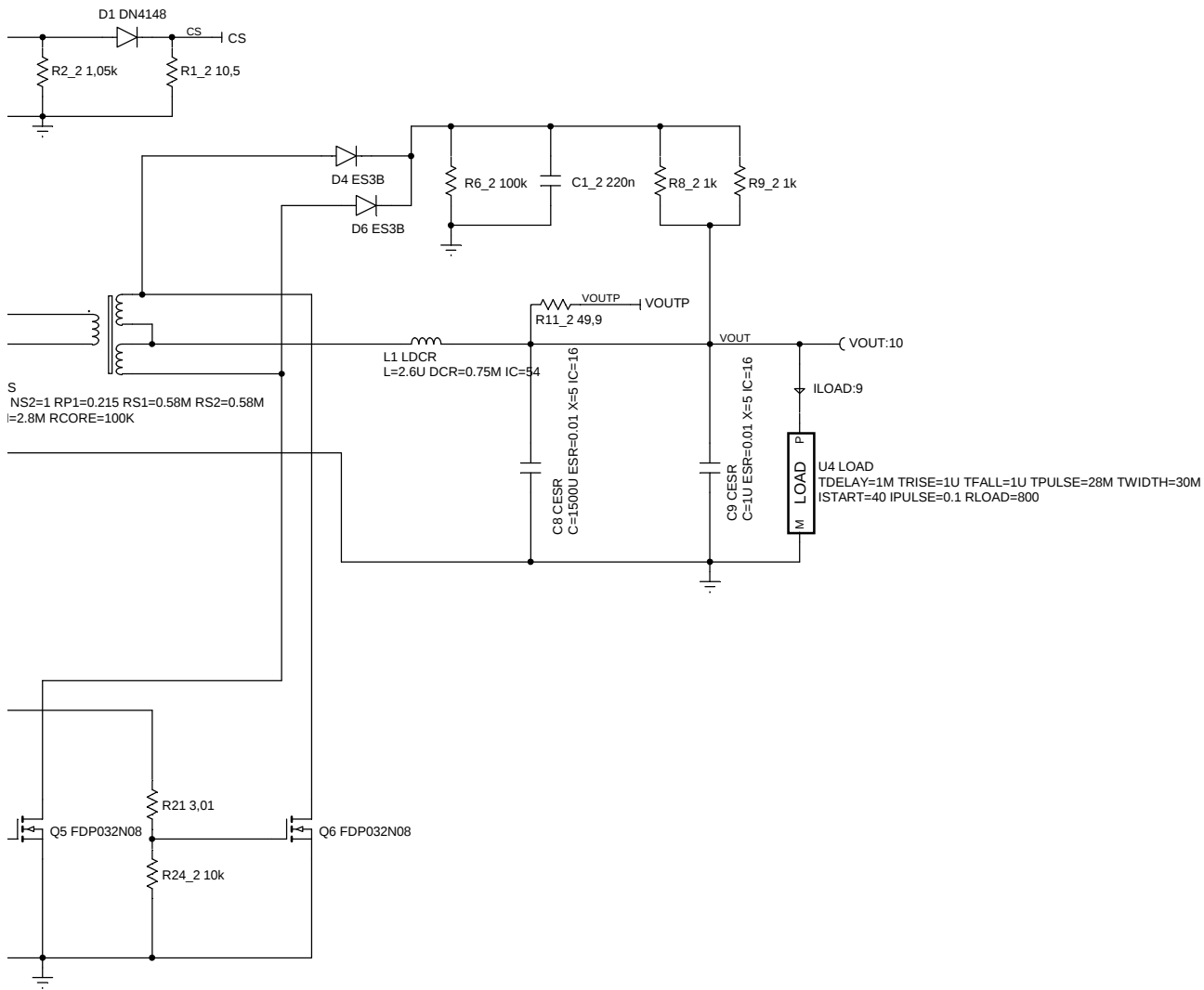
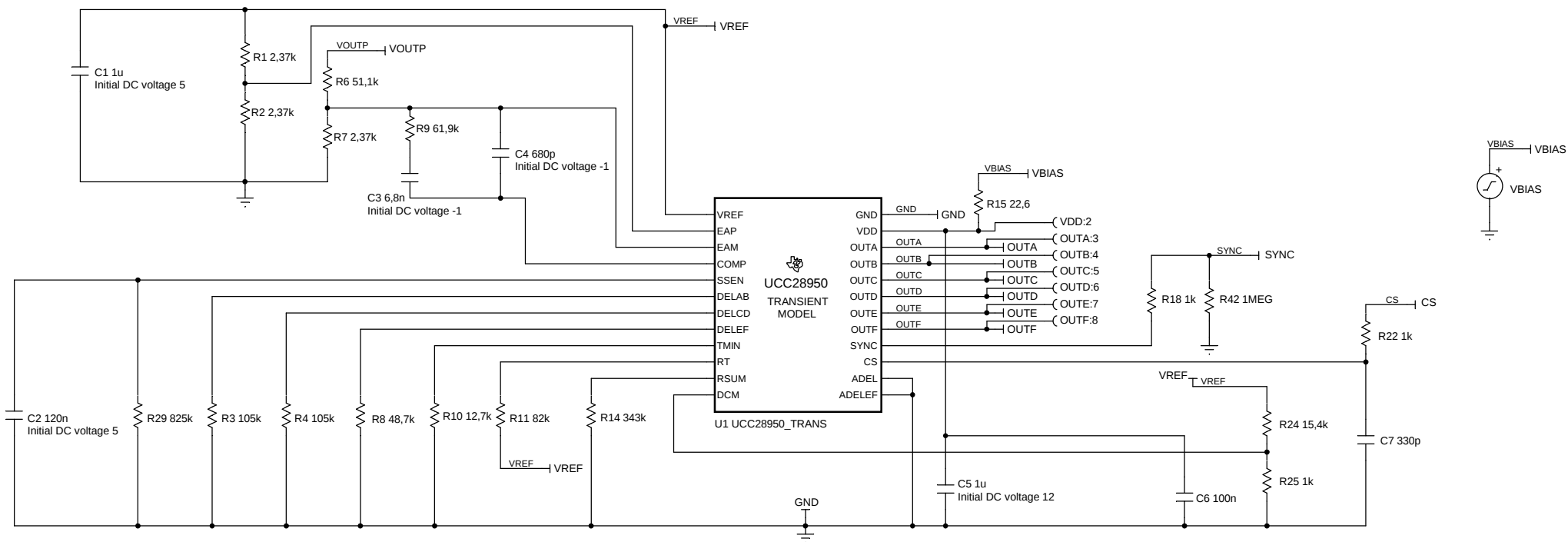


UCC28950 Steady State Simulation

Title UCC28950: Green Phase Shifted Full Bridge Controller with SR		
Size	Document No. Datasheet: SLUSA16B EVM: SLUU421A	Rev 1.0
Date	February 15, 2012	Sheet 1 of 1







TEST BENCH DESCRIPTION:

1. The UCC28950 Transient Model is encrypted.
2. The application circuit shown above is the same as the EVM.
3. This model has been tested for an input voltage range of 370V to 410V and an output current range of 1mA to 50A.
4. In this simulation, initial conditions are given to some of the EVM components in order to start in steady state directly.
Do not observe the waveform for the first 500us since steady state is only reached after this time.
5. This testbench is setup to show a load transient from 50A to 110mA and back to 50A to show the working of the part in burst mode.

SIMULATION INFO:

1. Go to Analysis >> Options and enable the following options
 - a) 'disable warning for large size analysis'
 - b) 'percentage bar'
 - c) 'Enable instant diagram drawing'
2. Analysis Parameters have been customized so that the simulation doesn't flag convergence error.
3. Go to Analysis >> Transient. Ensure that 'Draw excitation' check box is unchecked.
4. Enable 'Use initial conditions'.
5. To run simulation, click OK.
6. The simulation runs for 3ms and takes approximately 10 mins on a 4 core 2.8GHz machine.