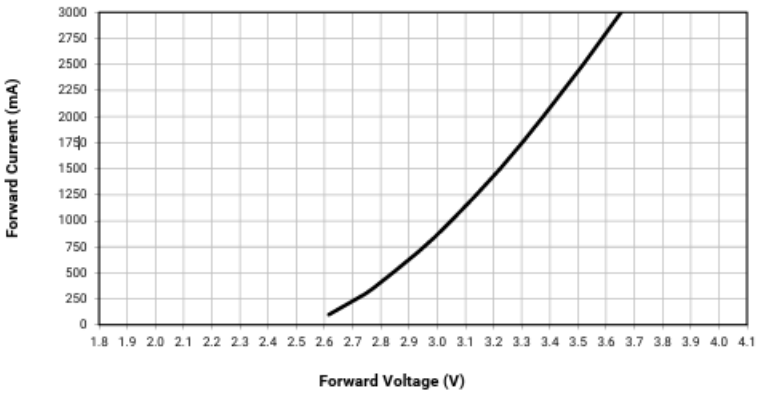
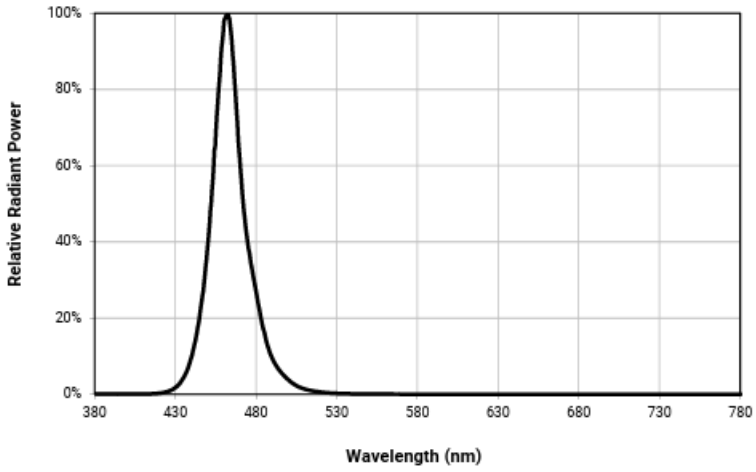
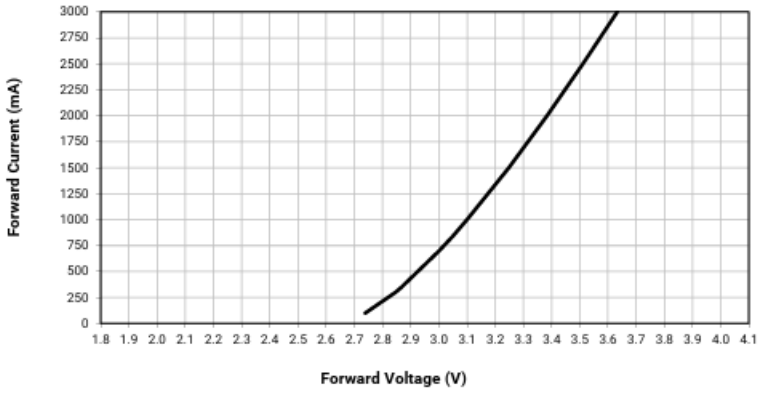


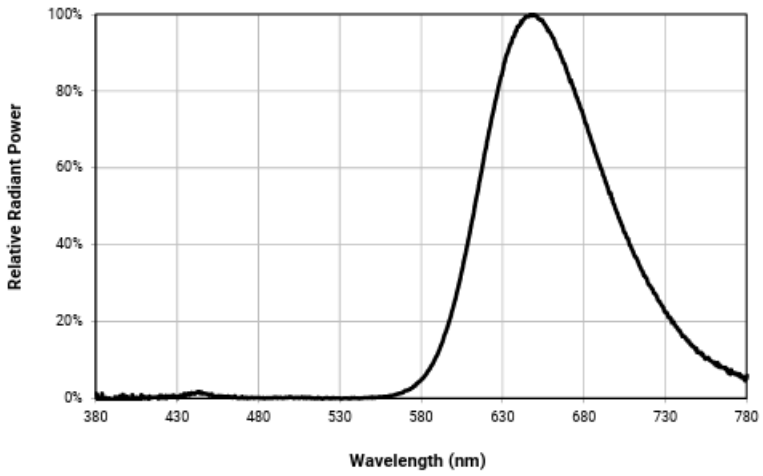
ELECTRICAL CHARACTERISTICS - BLUE (TJ = 25 °C)



RELATIVE SPECTRAL POWER DISTRIBUTION - BLUE



ELECTRICAL CHARACTERISTICS - PC RED (TJ = 25 °C)



RELATIVE SPECTRAL POWER DISTRIBUTION - PC RED

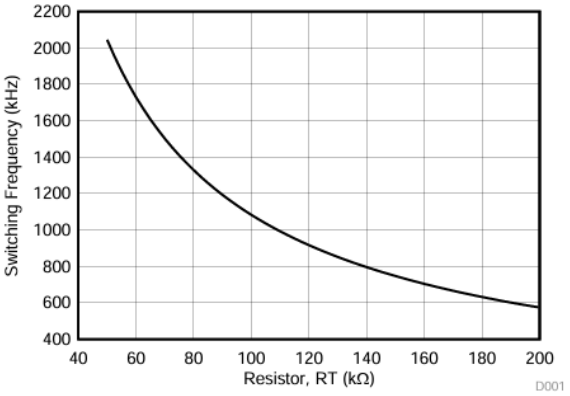


Figure 3. Switching Frequency vs RT Resistor

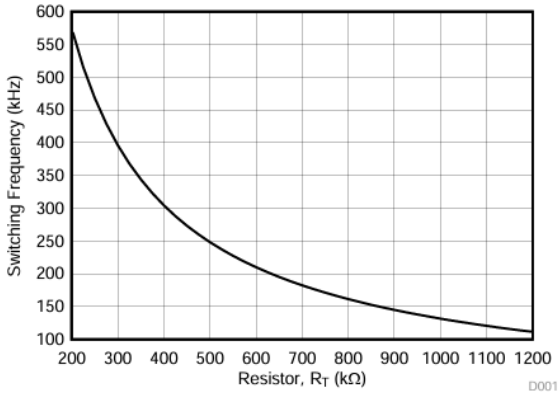
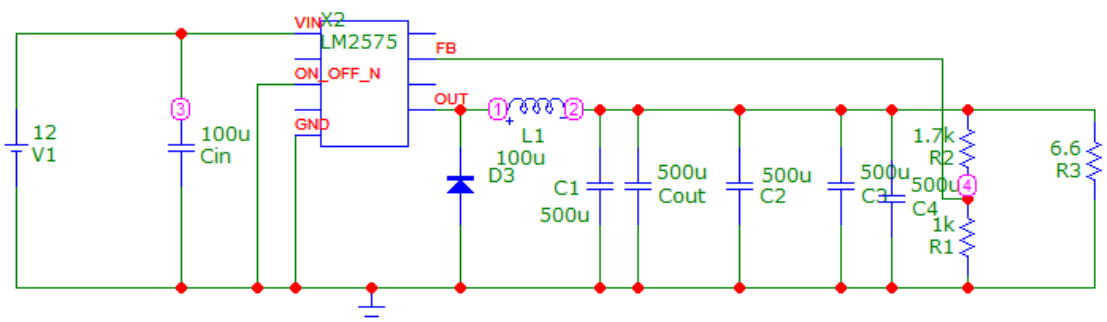
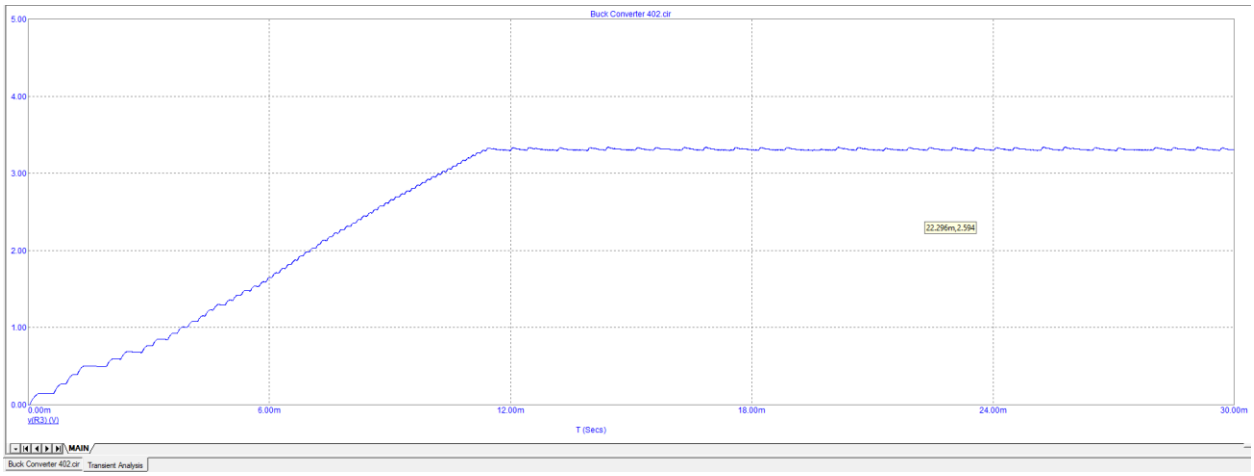


Figure 4. Switching Frequency vs RT Resistor

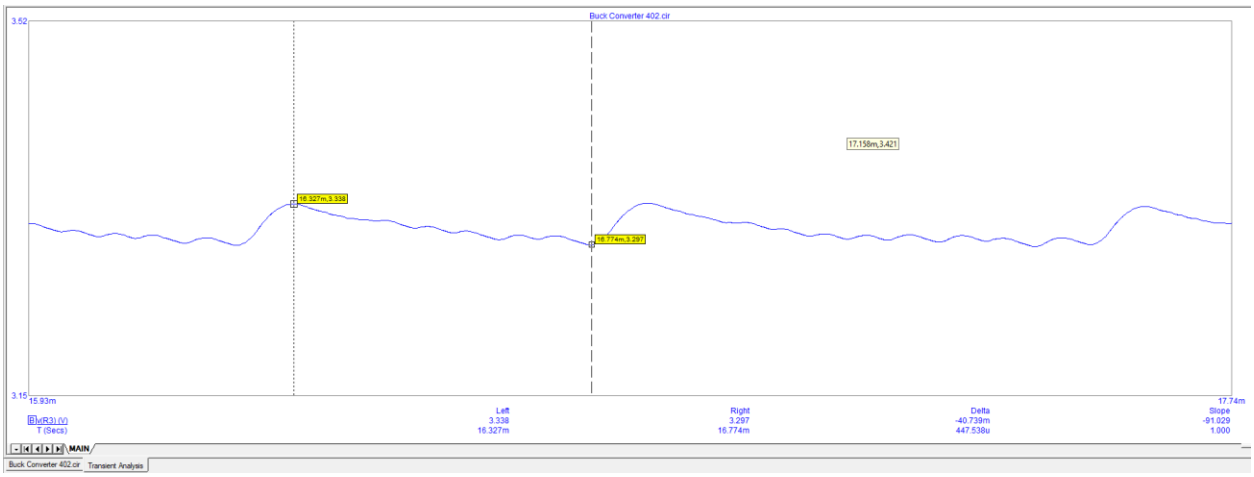
The value fo the RT Resistor required to set the switching frequence of the TPS92512



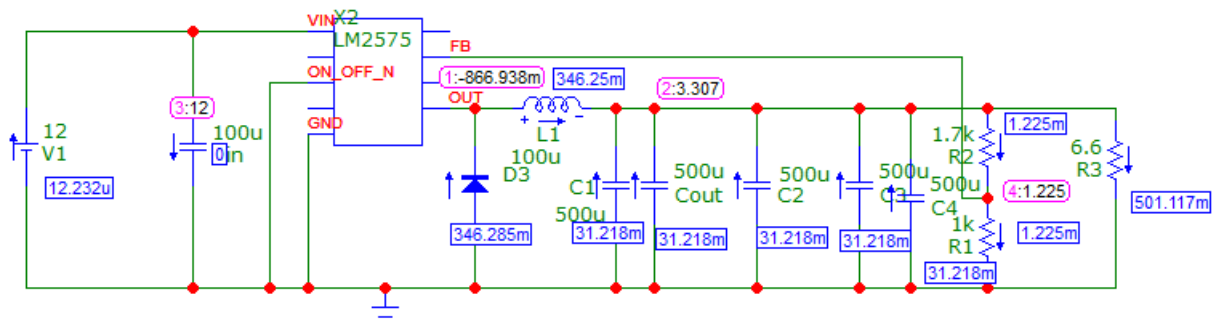
3.3V Buck Converter



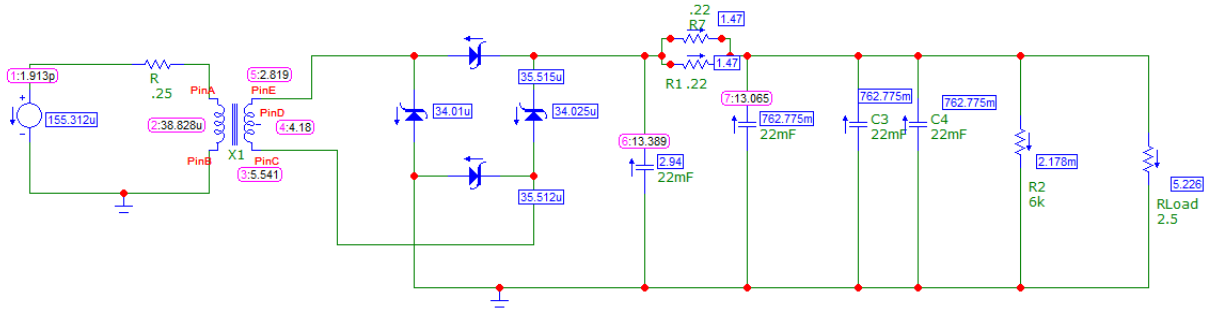
Transient at the Load



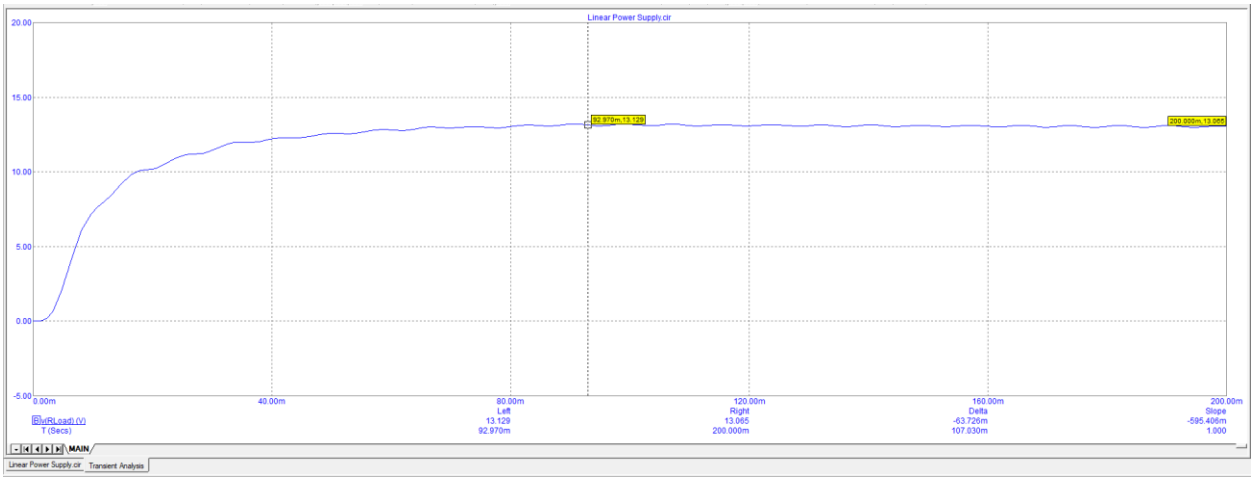
p-p Ripple



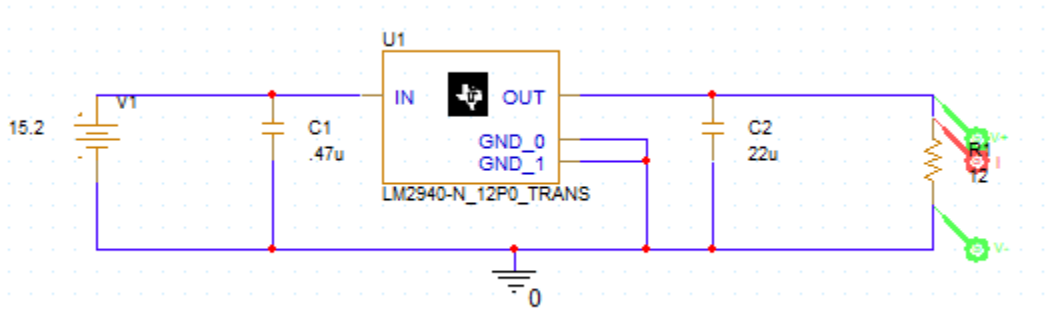
Node Voltages and Current

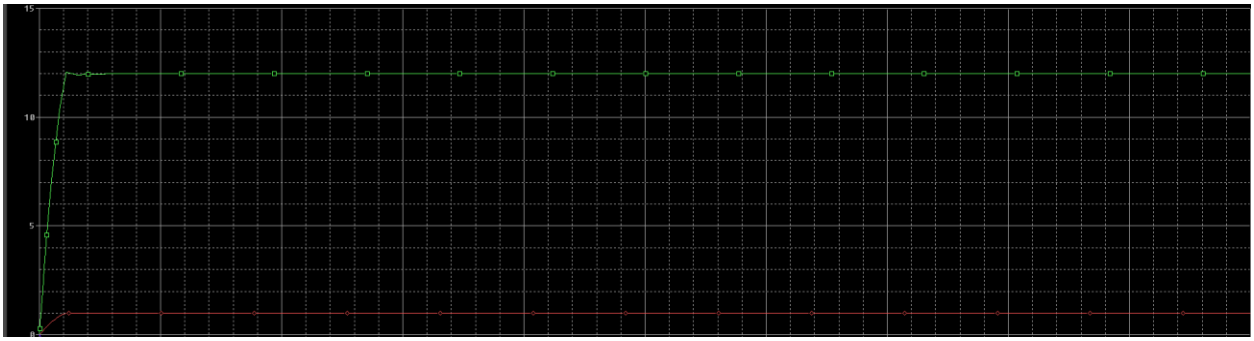


Linear Power Supply Node Voltages and Current

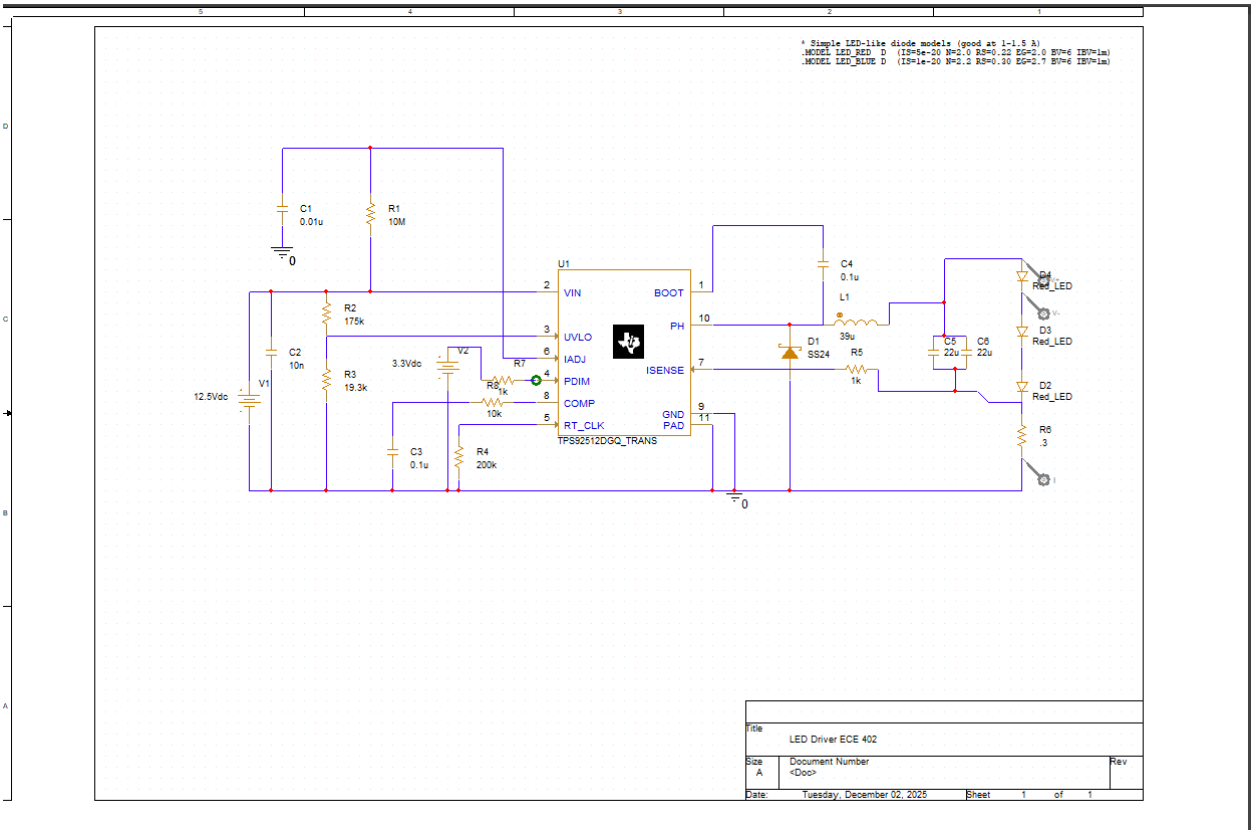


Linear Power Supply Transient

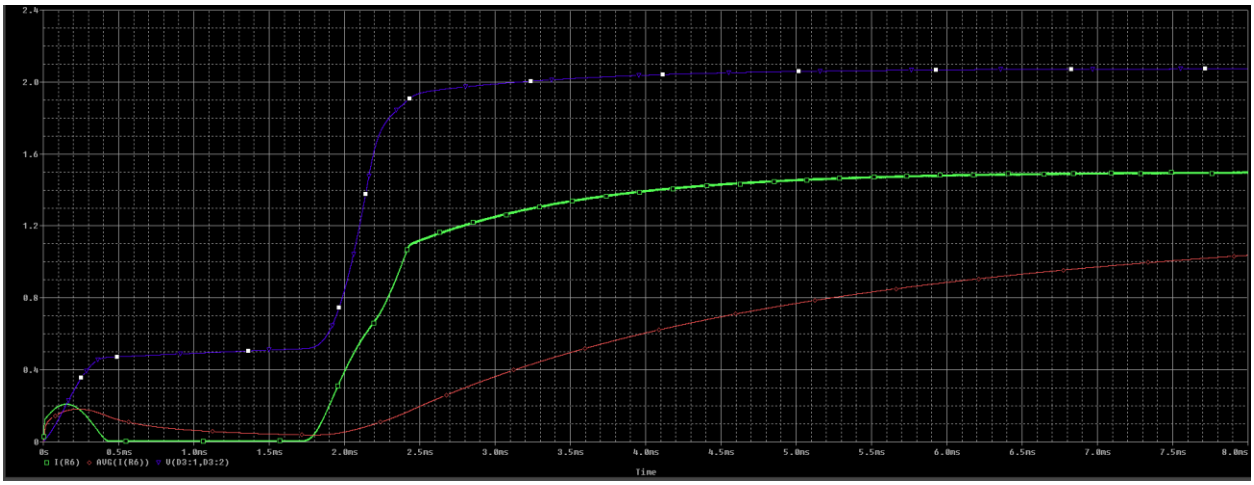




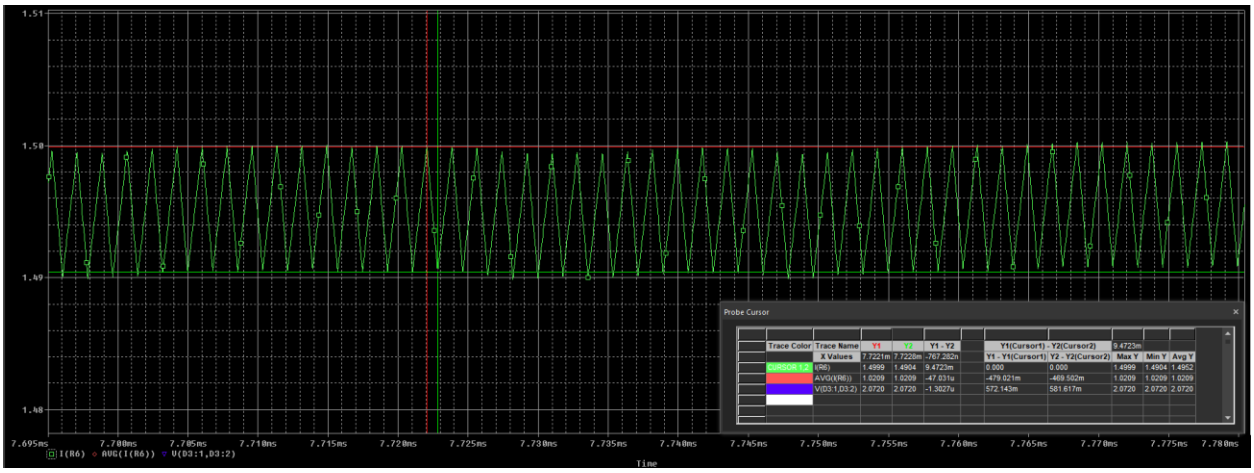
12V Regulator Transient Response



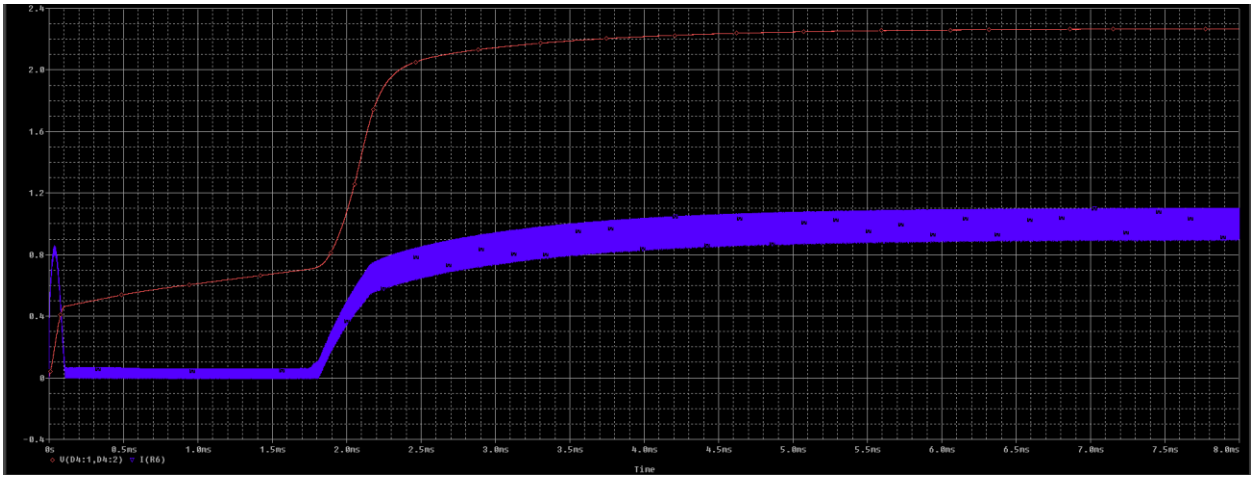
LED Driver Sim



Blue->Vf of Led, Green->I(R6)



Current Ripple through Risense



LED Driver Sim with 15.2V Vin, and 33uH Inductor -> Increased Current Ripple Through isense resistor, still low inductor ripple tho. Red->Vf of LED, Blue->Current through R6.