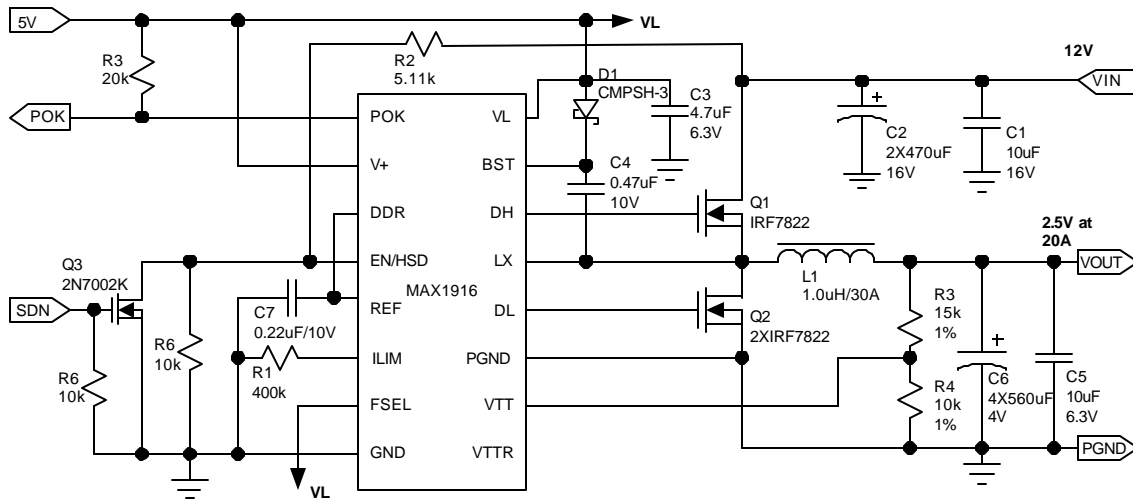


12V input, 2.5V/20A output application: (VDDQ)



This circuit has been tested in the lab. The efficiency is about 88.5% at 20A output current. It should be noted that the prototype of this circuit is modified from the 7A VTT EV kit. The copper is only 1 Oz and the bottom two MOSFETs are stacked on top of each other due to single MOSFET layout. For a better layout, the efficiency will be better.

The main component part numbers are:

L1: HM73-301R0, 1uH/23A,

C6: OS-CON, 4SP560M,

C2: OS-CON, 16SG470M.