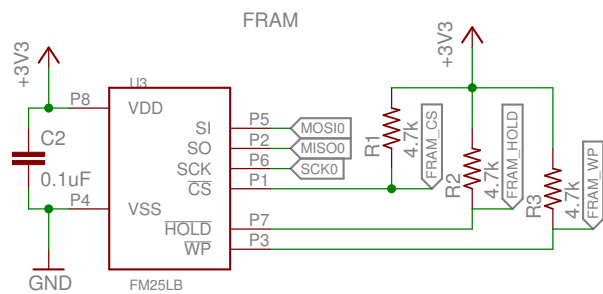
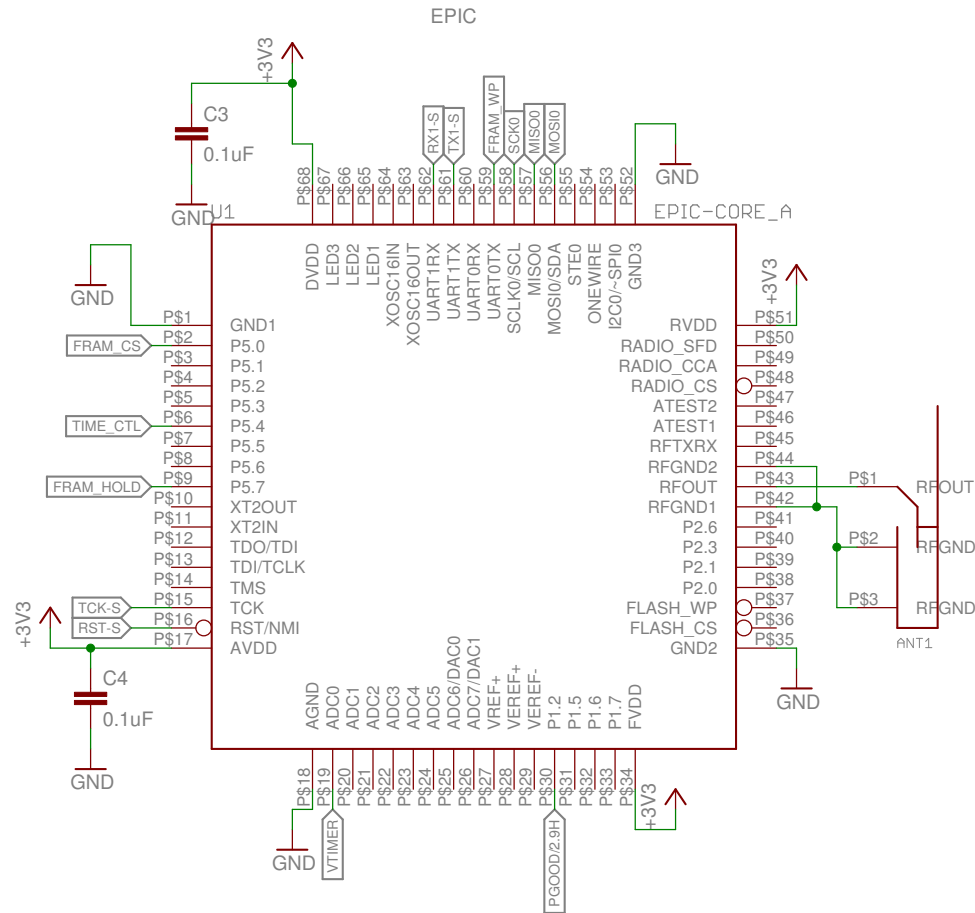
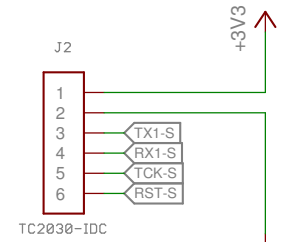
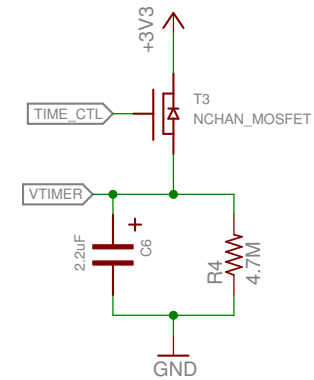
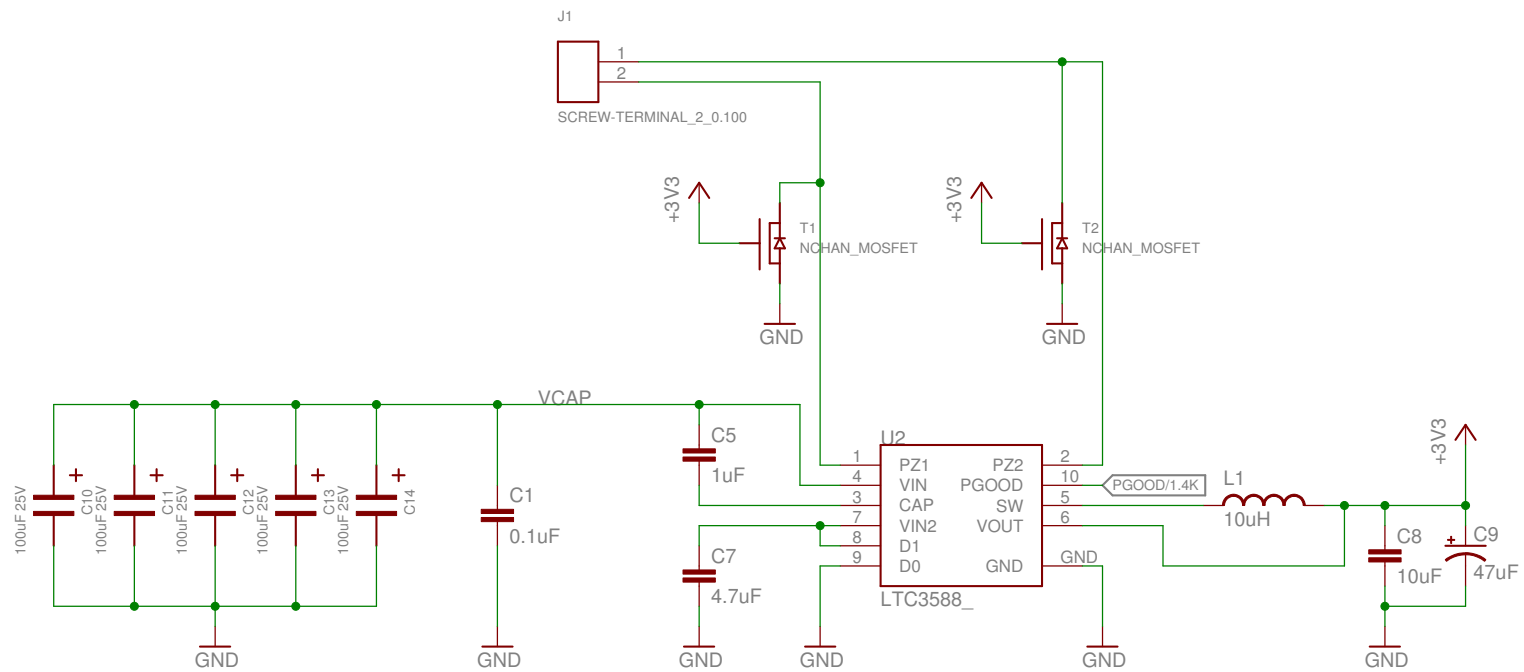


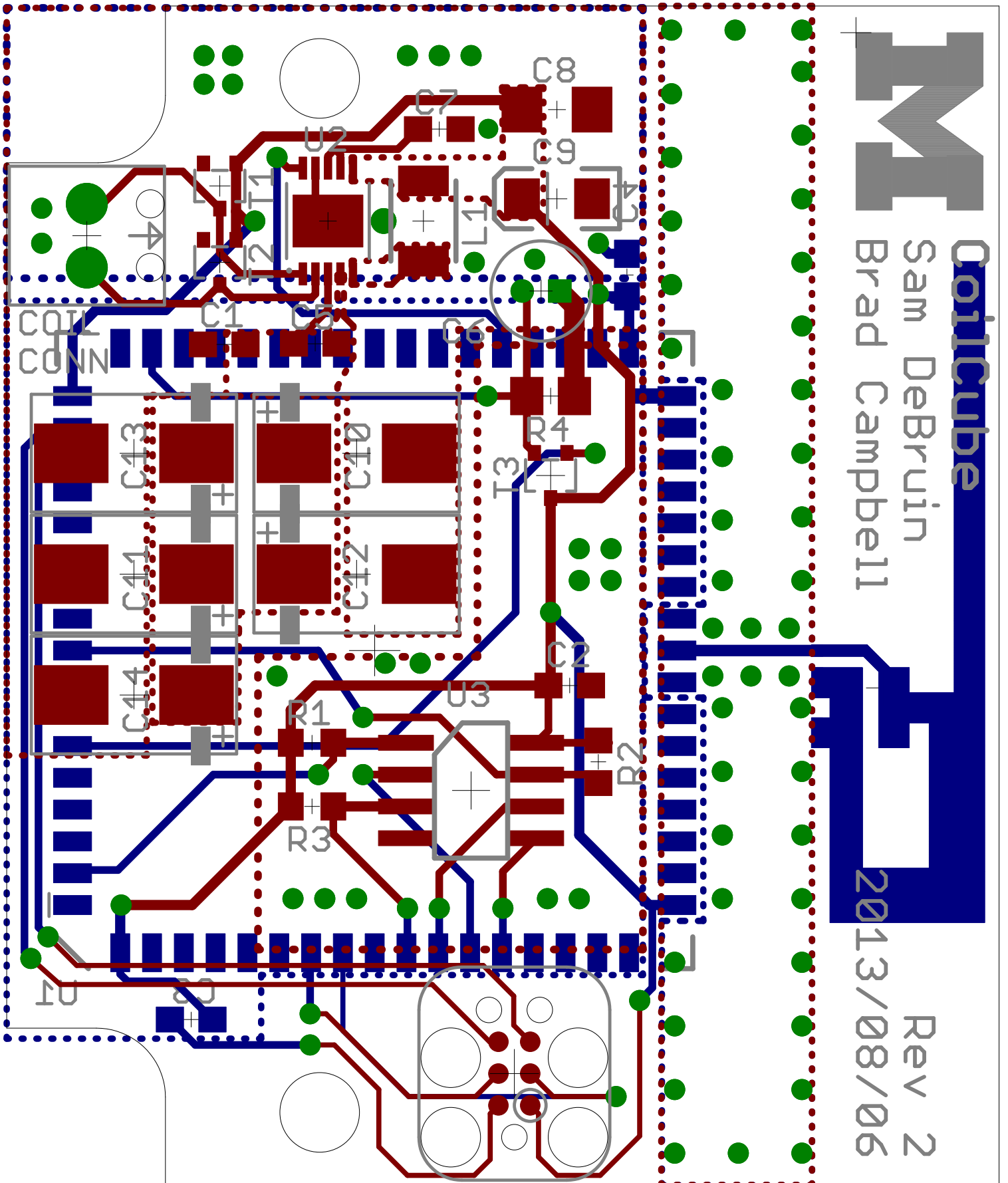
## Programmer Connection



### Timing Circuit







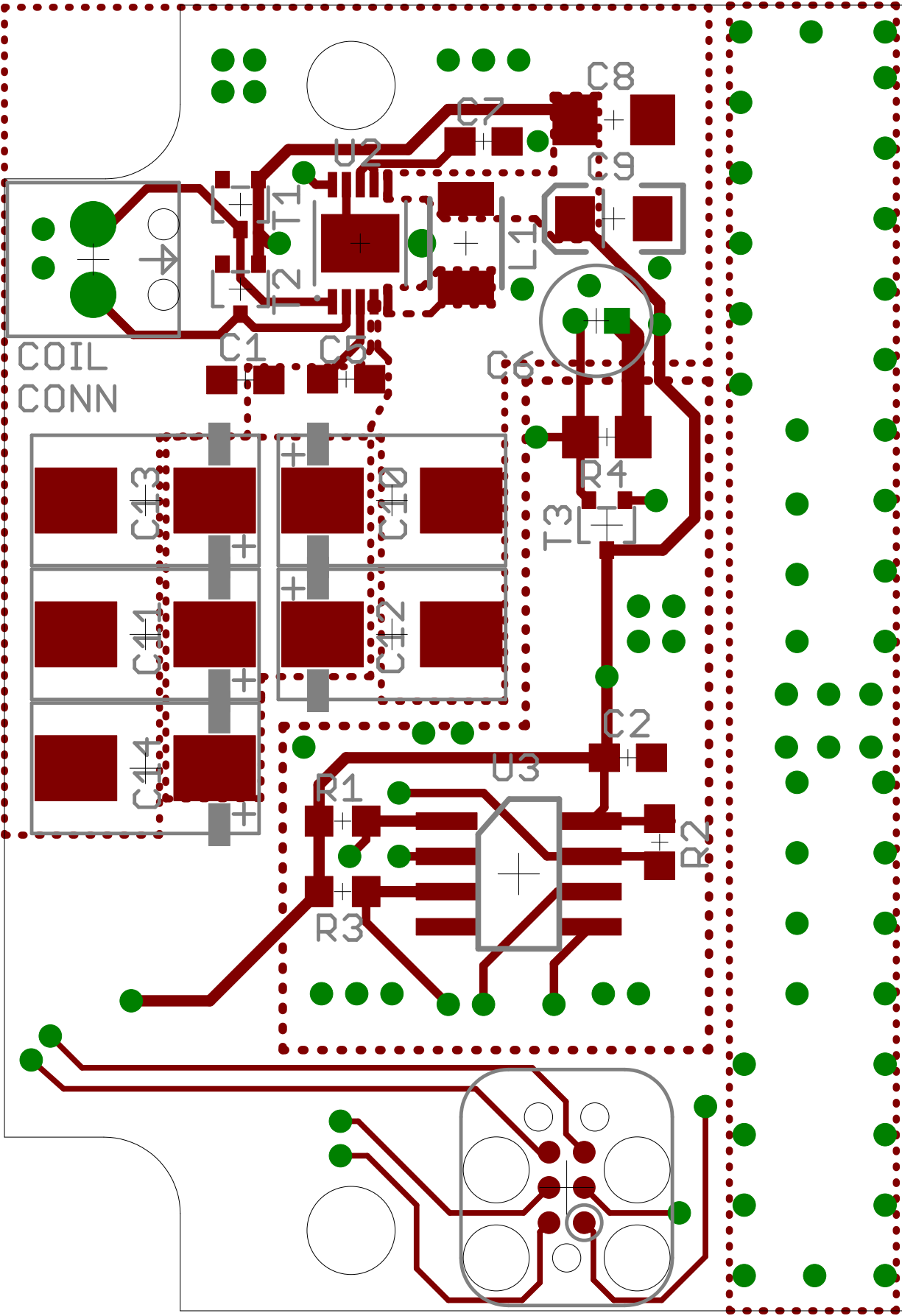
**CoiCube**

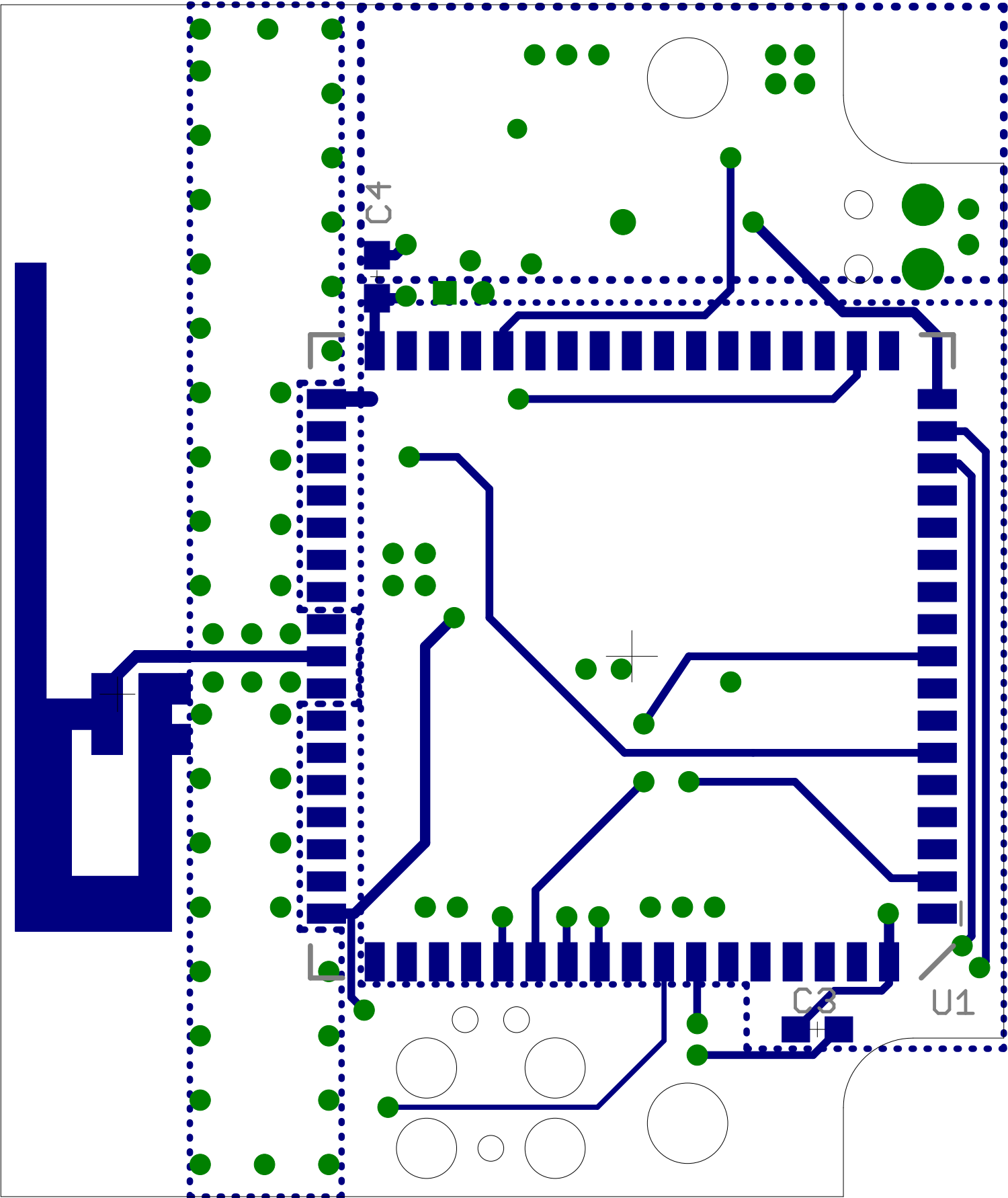
Sam DeBruin  
Brad Campbell

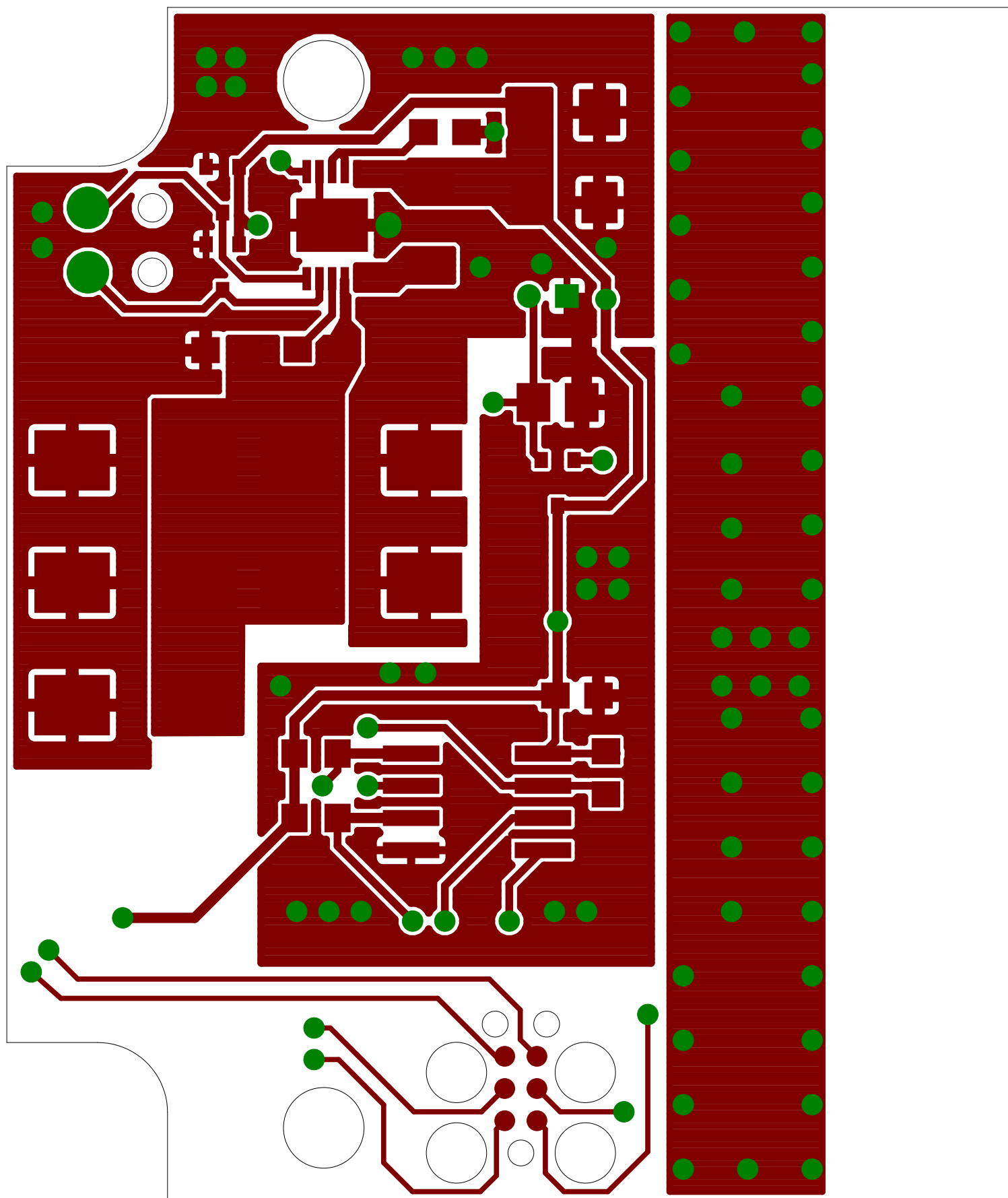
Rev 2  
2013/08/06

**CoilCube**  
Sam DeBruin  
Brad Campbell

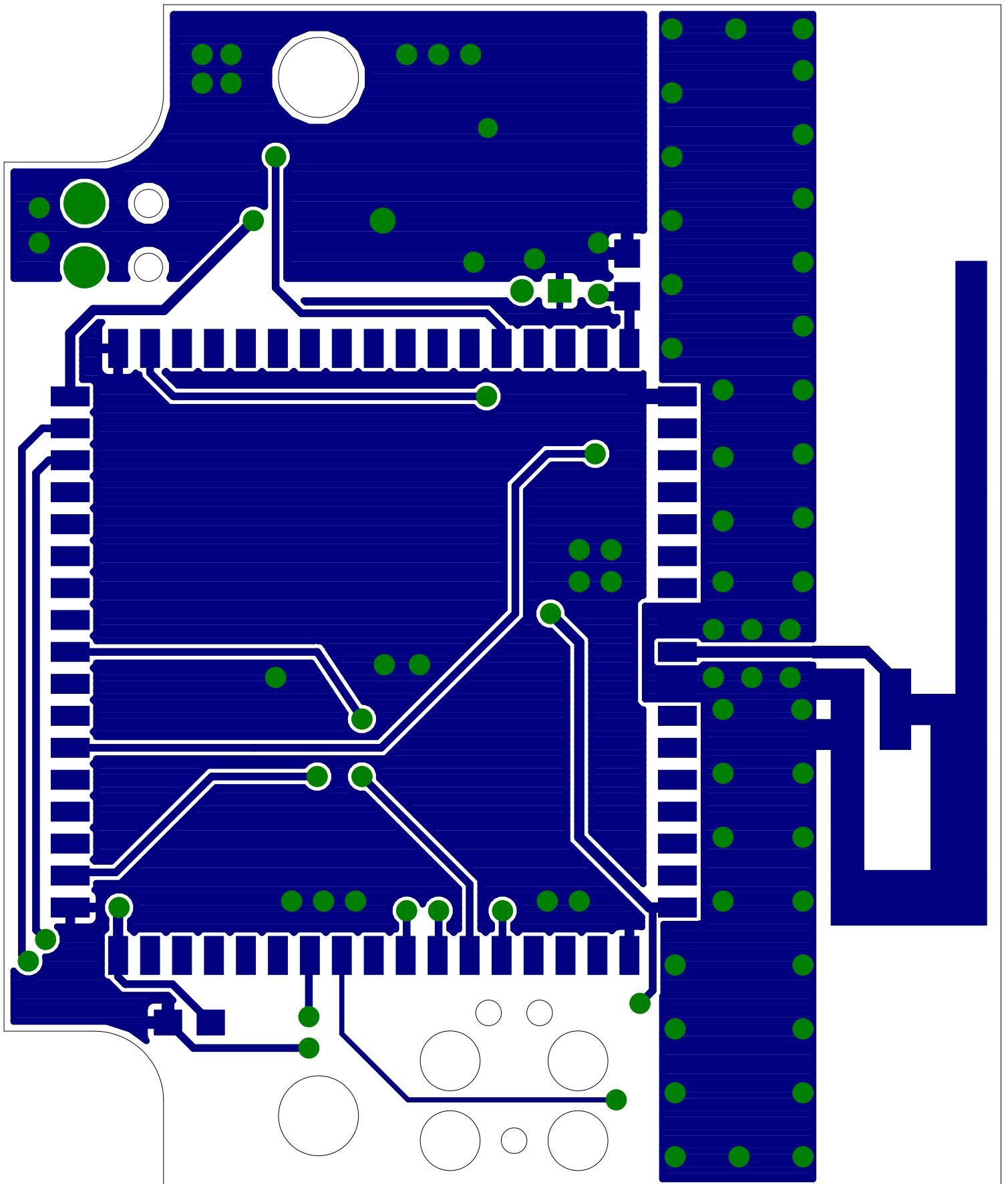
Rev 2  
2013/08/06





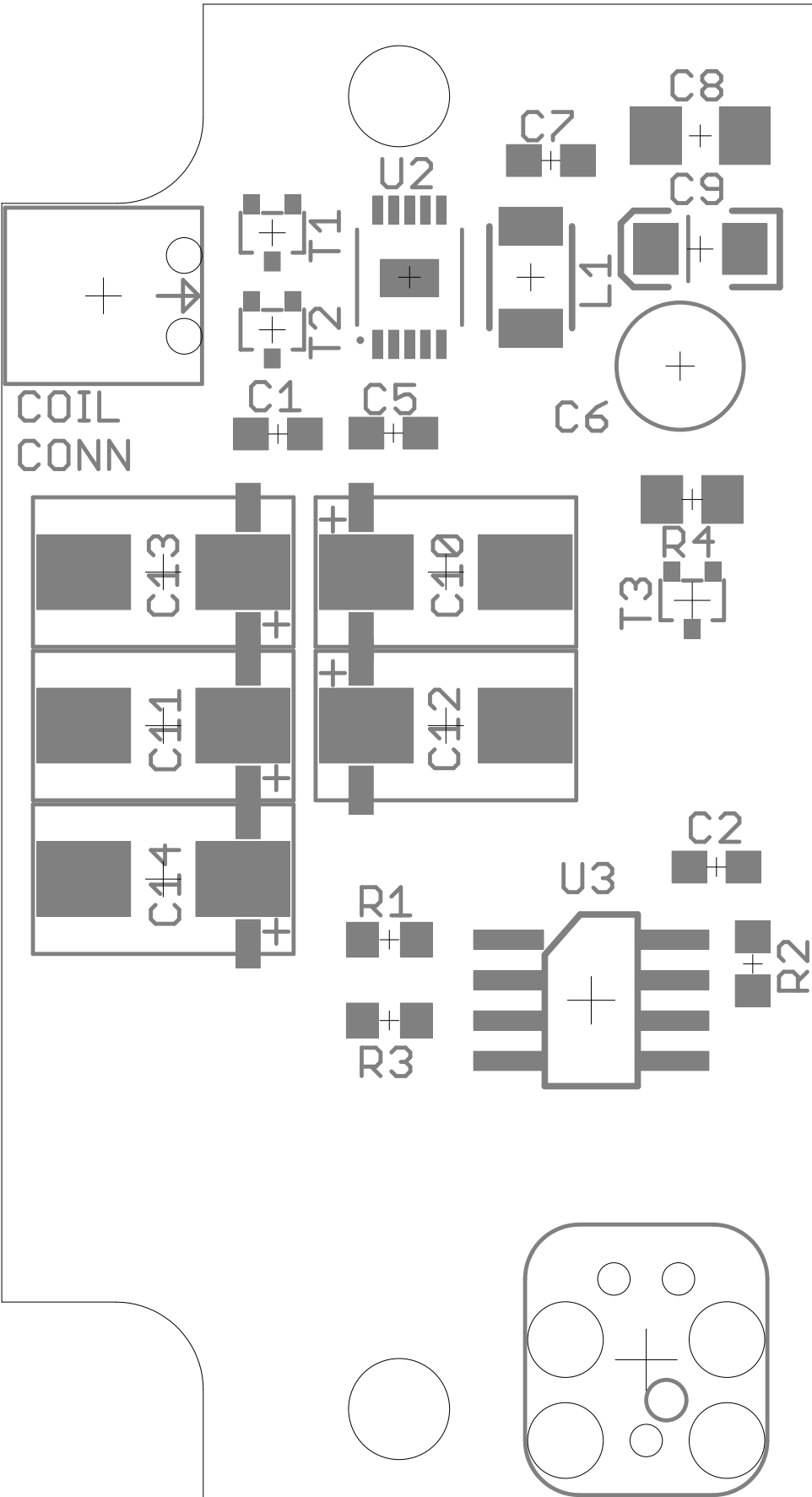


Bottom Copper Layer



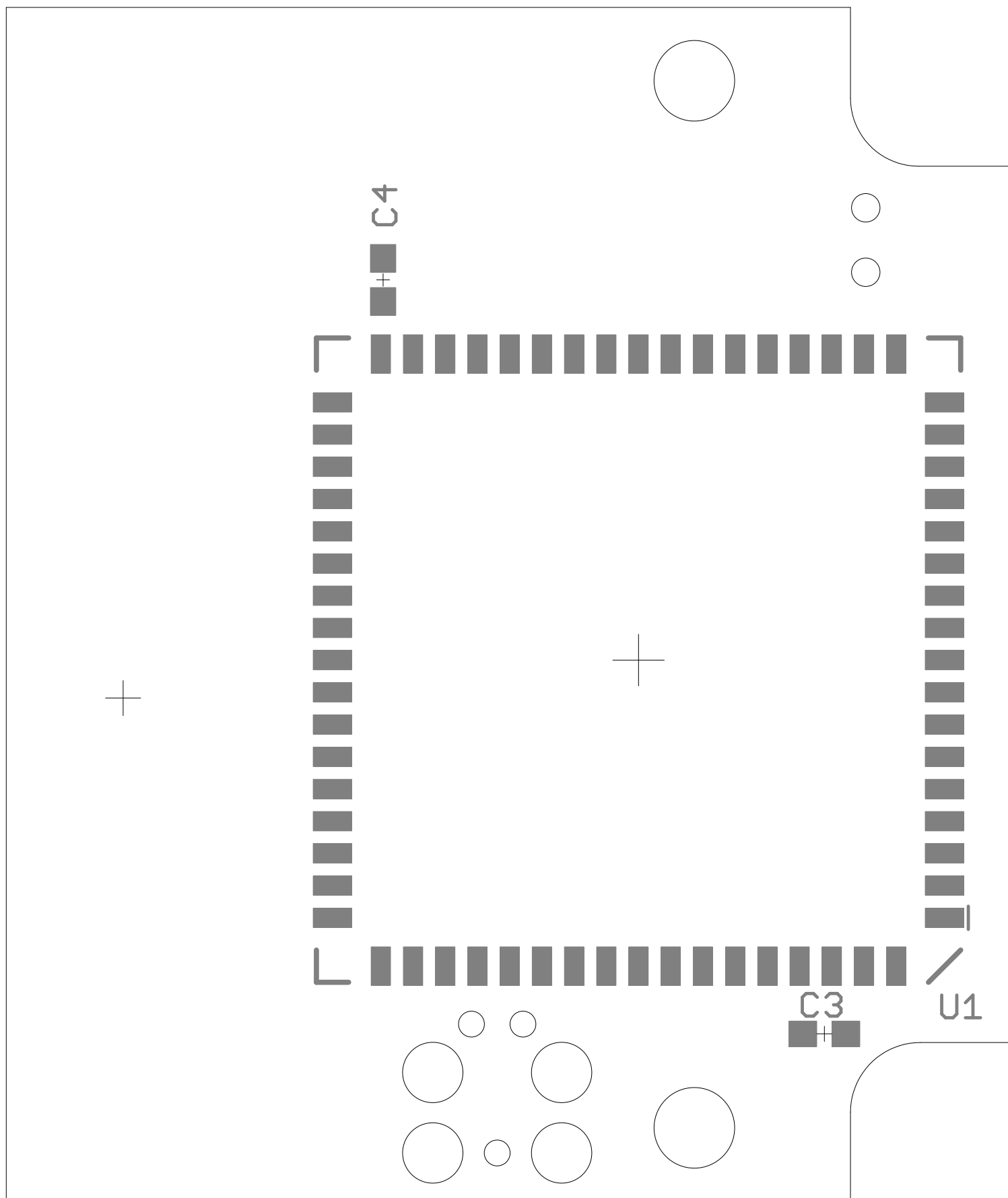
**CoilCube**  
Sam DeBruin  
Brad Campbell

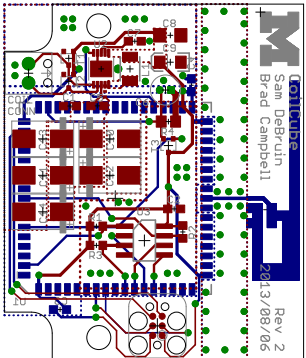
Rev 2  
2013/08/06



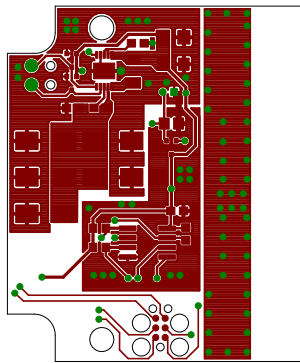


Bottom Paste Layer with Silkscreen

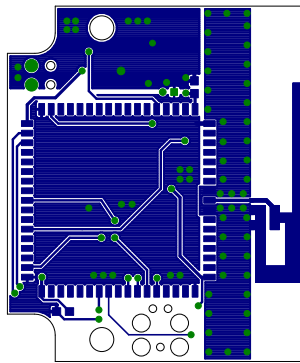




Top Layer 1:1 Scale



Bottom Copper Layer 1:1 Scale



# Sheet1

| Qty | Value                    | Device                 | Package        |
|-----|--------------------------|------------------------|----------------|
|     | 40.1uF                   | C-EUC0603              | C0603          |
|     | 11uF                     | C-EUC0603              | C0603          |
|     | 12.2uF                   | CAP_POLEA1MM5          | CPOL_EEA_1MM5  |
|     | 14.7uF                   | C-EUC0603              | C0603          |
|     | 110uF                    | C-EUC1206              | C1206          |
|     | 147uF                    | CAP_POL1206            | EIA3216        |
|     | 5100uF 25V               | 2917_CAP_POL           | 2917_CAP_POL   |
|     | 1 SCREW-TERMINAL_2_0.100 | SCREW-TERMINAL_2_0.100 | CONN_BLOCK_2   |
|     | 110uH                    | INDUCTOR1210           | 1210           |
|     | 34.7k                    | R-US_R0603             | R0603          |
|     | 14.7M                    | R-US_R0805             | R0805          |
|     | 2 NCHAN_MOSFET           | NCHAN_MOSFET           | NCHAN_MOSFET   |
|     | 1 NCHAN_MOSFET           | NCHAN_MOSFET           | NCHAN_MOSFET   |
|     | 1 EPIC-CORE_A            | EPIC-CORE_A            | EPIC-LCC68     |
|     | 1 LTC3588_               | LTC3588_               | MSOP-10-GNDPAD |
|     | 1 FM25LB                 | FM25LB                 | SOIC_8         |

# Sheet1

| Parts                   | Description                      | DIGIKEY              |
|-------------------------|----------------------------------|----------------------|
| C1, C2, C3, C4          | CAPACITOR, European symbol       | 445-1316-1-ND        |
| C5                      | CAPACITOR, European symbol       | 445-1321-1-ND        |
| C6                      |                                  | P14506-ND            |
| C7                      | CAPACITOR, European symbol       | 445-5178-1-ND        |
| C8                      | CAPACITOR, European symbol       | 399-8152-1-ND        |
| C9                      | Capacitor Polarized              | 399-3700-1-ND        |
| C10, C11, C12, C13, C14 |                                  | 399-5175-1-ND        |
| J1                      | 2x 0.100 in screw terminal block | 277-1273-ND          |
| L1                      | Inductors                        | 587-1625-1-ND        |
| R1, R2, R3              | RESISTOR, American symbol        | P4.7KGCT-ND          |
| R4                      | RESISTOR, American symbol        | P4.7MACT-ND          |
| T1, T2                  |                                  | SI1302DL-T1-GE3CT-ND |
| T3                      |                                  | 568-3244-1-ND        |
| U1                      |                                  |                      |
| U2                      | Energy Harvesting Power Supply   | LTC3588EMSE-1#PBF-ND |
| U3                      |                                  | 428-3210-ND          |