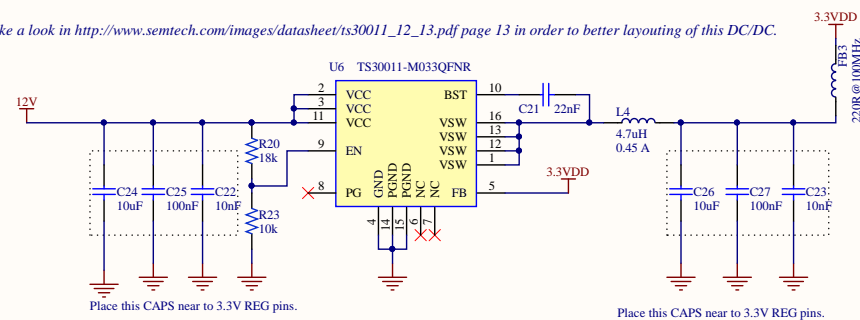
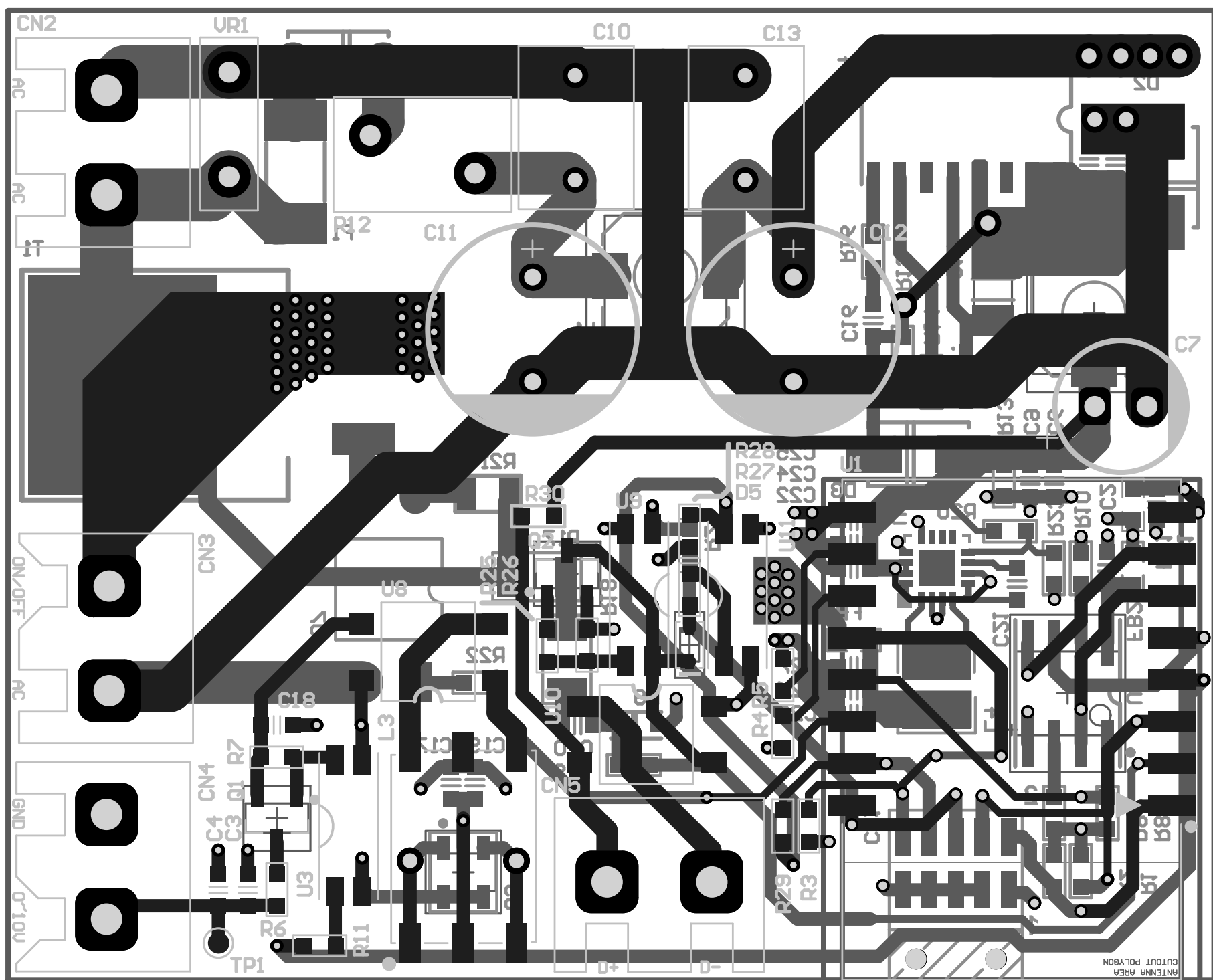
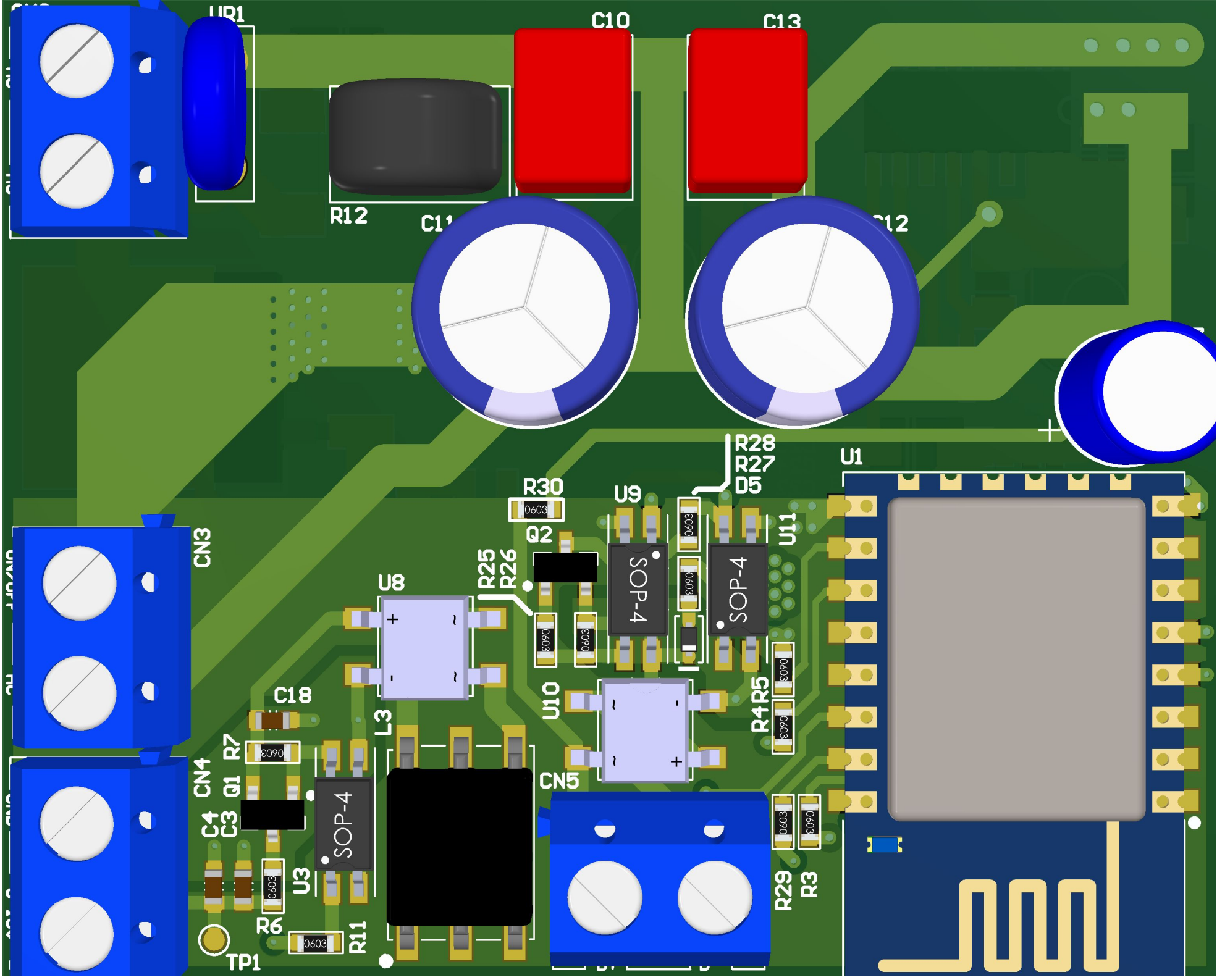


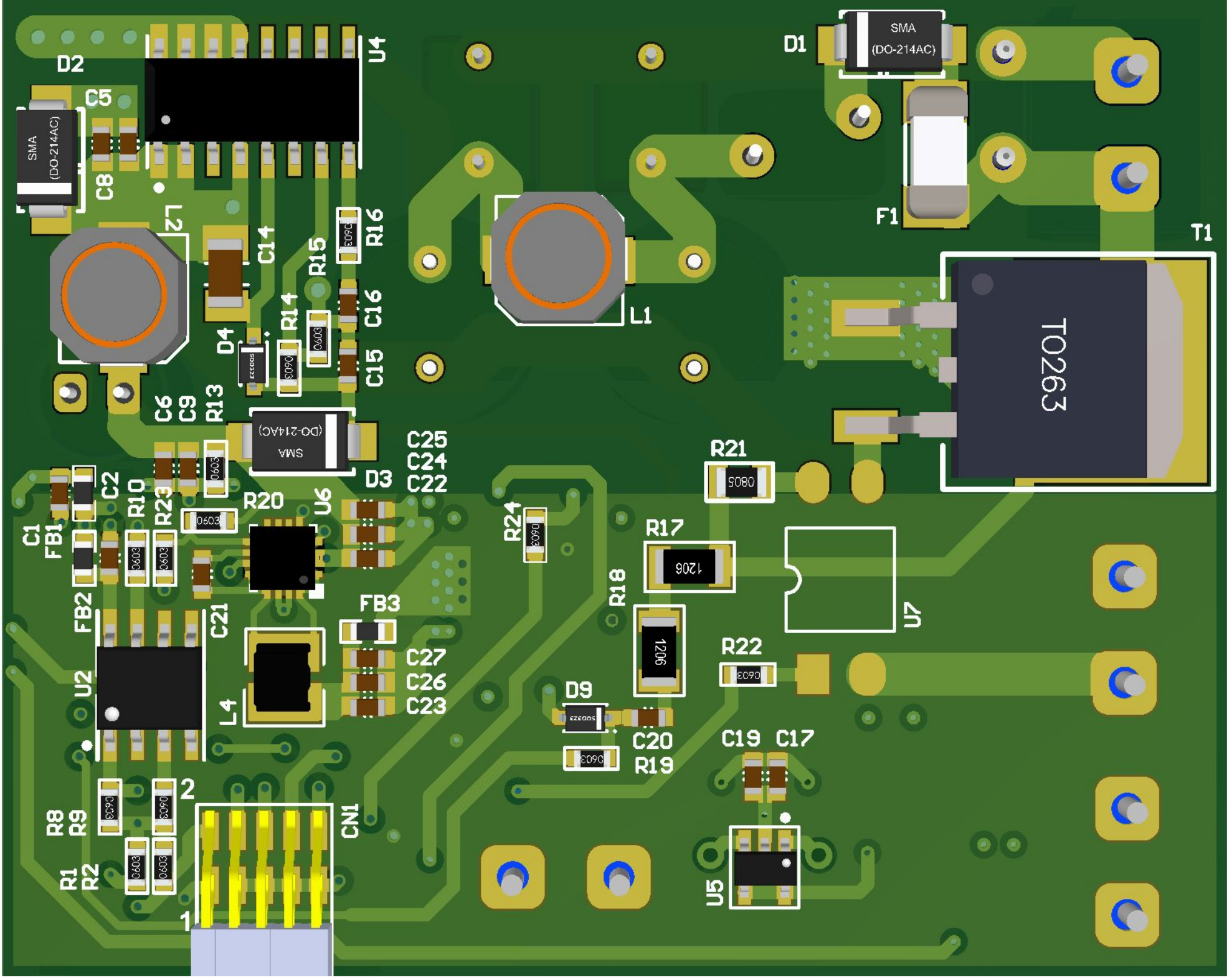
Take a look in http://www.semtech.com/images/datasheet/ts30011_12_13.pdf page 13 in order to better layouting of this DC/DC.





.Layer_Name'





| Line # | Quantity | Name | Description | Designator | Manufacturer 1 | Manufacturer Part Number 1 | Manufacturer Lifecycle 1 | Supplier 1 | Supplier Part Number 1 | Supplier Unit Price 1 | Supplier Subtotal 1 |
|--------|----------|-------------------|----------------------|----------------------|----------------------|----------------------------|--------------------------|------------|------------------------|-----------------------|---------------------|
| | 7 | 100nF | CAP CER 0.1UF 50V | C1, C2, C3, C19, C20 | TDK | CGA3E2X7R1H104K080AA | Volume Production | Digi-Key | 445-5666-6-ND | 0,1 | 0,7 |
| | 5 | 10uF | CAP CER 10UF 16V | C4, C17, C18, C24 | Murata | GRM188R61C106MA73D | Volume Production | Digi-Key | 490-7201-1-ND | 0,4 | 2 |
| | 2 | 10pF | CAP CER 10PF 50V | C5, C6 | Samsung | CL10C100FB8NNNC | Volume Production | Digi-Key | 1276-2152-1-ND | 0,18 | 0,36 |
| | 1 | 330uF | CAP 330 UF 20% 16V | C7 | Würth Electronics | 8,6016E+11 | Volume Production | Digi-Key | 732-9474-1-ND | 0,32 | 0,32 |
| | 2 | 1nF | CAP CER 1000PF 50V | C8, C9 | Murata | GCM1885C1H102JA16D | Volume Production | Digi-Key | 490-4768-1-ND | 0,27 | 0,54 |
| | 2 | CAP FILM 10000PF | CAP FILM 10000PF 50V | C10, C13 | TDK EPCOS | B32529C8103J000 | Unknown | Digi-Key | 495-1262-ND | 0,61 | 1,22 |
| | 2 | 12uF | CAP ALUM 12UF 25V | C11, C12 | United Chemi-Con | EKXJ351ELL120MJ16S | Volume Production | Digi-Key | 565-3506-ND | 0,79 | 1,58 |
| | 1 | 1.5uF | CAP CER 1.5UF 50V | C14 | TDK | CGA5L3X7R1H155K160AB | Volume Production | Digi-Key | 445-6985-1-ND | | |
| | 1 | 100nF | 0.1µF ±10% 50V C | C15 | KEMET | C0603C104K5RACTU | Volume Production | Digi-Key | 399-5089-1-ND | 0,2 | 0,2 |
| | 2 | 22nF | 0.022µF 16V Cera | C16, C21 | TDK | C1608X7R1C223M | Obsolete | Digi-Key | 445-5115-1-ND | 0,1 | 0,2 |
| | 2 | 10nF | 10000pF ±10% 16V | C22, C23 | KEMET | C0603C103K4RACTU | Volume Production | Digi-Key | 399-7841-1-ND | 0,12 | 0,24 |
| | 1 | SAM1160-05 | 10 Positions Header | CN1 | Samtec | FTSH-105-01-L-DH | Volume Production | Digi-Key | SAM1160-05-ND | 1,69 | 1,69 |
| | 4 | 1935161 | TERM BLOCK PCB | CN2, CN3, CN4, CN5 | Phoenix Contact | PT1,5/2-5.0-H | Volume Production | Digikey | 277-1667-ND | | |
| | 1 | DIODE GEN PURP | DIODE GEN PURP | D1 | Diodes | RS1M-13-F | Volume Production | Digi-Key | RS1M-FDICT-ND | | |
| | 2 | STTH1L06 | DIODE GEN PURP | D2, D3 | STMicroelectronics | STTH1L06A | Volume Production | Digi-Key | 497-3241-1-ND | 0,52 | 1,04 |
| | 1 | 1N4148 | DIODE SWITCHING | D4 | Vishay | 1N4148WS-E3-08 | Volume Production | Digi-Key | 1N4148WS-E3-08CT-ND | | |
| | 1 | MM5Z5V6ST1G | DIODE ZENER 5.6V | D5 | ON Semiconductor | MM5Z5V6ST1G | Volume Production | Digi-Key | MM5Z5V6ST1GOSCT-ND | 0,27 | 0,27 |
| | 1 | MM3Z3V3ST1G | DIODE ZENER 3.3V | D9 | ON Semiconductor | MM3Z3V3ST1G | Volume Production | Digi-Key | MM3Z3V3ST1GOSCT-ND | 0,16 | 0,16 |
| | 1 | Fuse 1A 350V | FUSE BOARD MNT | F1 | Bel | 0679H1000-05 | Unknown | Digi-Key | 507-2046-1-ND | 0,35 | 0,35 |
| | 3 | 220R@100MHz | FERRITE CHIP 0603 | FB1, FB2, FB3 | TDK | MPZ1608S221ATA00 | Volume Production | Digi-Key | 445-1565-1-ND | 0,1 | 0,3 |
| | 2 | 470uH | FIXED IND 470UH | L1, L2 | TDK | CLF6045T-471M | Volume Production | Digi-Key | 445-15102-1-ND | 0,93 | 1,86 |
| | 1 | TRANSFORMER 470UH | TRANSFORMER 470UH | L3 | Würth Electronics | 760390013 | Volume Production | Digi-Key | 732-4457-1-ND | 1,9 | 1,9 |
| | 1 | FIXED IND 4.7UH | FIXED IND 4.7UH | L4 | Murata | LQH32CN4R7M23L | Volume Production | Digi-Key | 490-2495-1-ND | 0,33 | 0,33 |
| | 1 | MOSFET P CH 20V | MOSFET P CH 20V | Q1 | Diodes | DMP2100U-7 | Volume Production | Digi-Key | DMP2100U-7CT-ND | | |
| | 1 | MMBT2222ALT3G | TRANS NPN 40V 0.05A | Q2 | ON Semiconductor | MMBT2222ALT3G | Volume Production | Digi-Key | MMBT2222ALT3GOSCT-ND | 0,16 | 0,16 |
| | 14 | 10k | RES SMD 10K OHM | R1, R2, R3, R4, R5 | Yageo Phycomp | RC0603FR-0710KL | Volume Production | Digi-Key | 311-10.0KHRCT-ND | 0,024 | 0,336 |
| | 2 | 47k | RES SMD 47K OHM | R7, R14 | Yageo | RC0603FR-0747KL | Volume Production | Digi-Key | 311-47.0KHRCT-ND | 0,1 | 0,2 |
| | 4 | RES SMD 330 OHM | RES SMD 330 OHM | R11, R22, R24, R25 | Panasonic | ERJ3GEYJ331V | Volume Production | Digi-Key | P330GCT-ND | 0,1 | 0,4 |
| | 1 | 10R | ICL 10 OHM 20% 2512 | R12 | Ametherm | SL0810002 | Volume Production | Digi-Key | 570-1094-ND | 0,57 | 0,57 |
| | 2 | 18k | RES SMD 18K OHM | R15, R20 | Samsung | RC1608F183CS | Volume Production | Digi-Key | 1276-4765-1-ND | 0,1 | 0,2 |
| | 1 | 9.1k | RES SMD 9.1K OHM | R16 | Rohm | MCR03ERTF9101 | Volume Production | Digi-Key | RHM9.1KCLDKR-ND | | |
| | 2 | 120k | RES SMD 120K OHM | R17, R18 | Yageo | RC1206JR-07120KL | Volume Production | Digi-Key | 311-120KERDKR-ND | 0,1 | 0,2 |
| | 1 | 1k | RES SMD 1K OHM | R21 | Yageo | RC0805FR-071KL | Volume Production | Digi-Key | 311-1.00KCRCT-ND | 0,1 | 0,1 |
| | 1 | 2.2k | RES SMD 2.2K OHM | R27 | Panasonic | ERJ3GEYJ222V | Volume Production | Digi-Key | P2.2KGCT-ND | 0,1 | 0,1 |
| | 2 | 0R | RES SMD 0.0OHM | R29, R30 | Yageo | RC0603JR-070RL | Volume Production | Digi-Key | 311-0.0GRCT-ND | 0,1 | 0,2 |
| | 1 | TRIAC 600V 16A | TRIAC 600V 16A D | T1 | | | | Digi-Key | 568-12230-1-ND | | |
| | 1 | ESP8266-12 | ESP8266 SMT MODULE | U1 | | | | | | | |
| | 1 | W25Q80DVS | IC FLASH 8MBIT 1.8V | U2 | Winbond | W25Q80DVS | Volume Production | Digi-Key | W25Q80DVSNIG CT-ND | | |
| | 3 | TCMT1107 | OPTOISOLATOR 3V | U3, U9, U11 | Vishay Semiconductor | TCMT1107 | Volume Production | Digi-Key | TCMT1107CT-ND | 0,75 | 2,25 |
| | 1 | VIPER26LDT | IC OFFLINE CONV | U4 | STMicroelectronics | VIPER26LDT | Volume Production | Digi-Key | VIPER26LDCT-ND | 1,07 | 1,07 |
| | 1 | IC REG CONV PWR | IC REG CONV PWR | U5 | Texas Instruments | SN6501DBVR | Volume Production | Digi-Key | 296-37700-6-ND | 2,01 | 2,01 |
| | 1 | TS30011-M033QFN | IC REG BUCK 3.3V | U6 | Semtech | TS30011-M033QFN | Volume Production | Digi-Key | TS30011-M033QFNCT-ND | 1,26 | 1,26 |
| | 1 | APT1221A | Optoisolator Triac | U7 | Panasonic | APT1221A | Volume Production | Digi-Key | 255-1522-5-ND | 1,75 | 1,75 |
| | 2 | Bridge Rectifier | Bridge Rectifier SMD | U8, U10 | Vishay Semiconductor | MB6S-E3/80 | Volume Production | Digi-Key | MB6S-E3/80GICT-ND | 0,42 | 0,84 |
| | 1 | MOV-07D471KTR | MOV-07D471KTR | VR1 | Bourns | MOV-07D471KTR | Volume Production | Digi-Key | MOV-07D471KTRCT-ND | 0,39 | 0,39 |