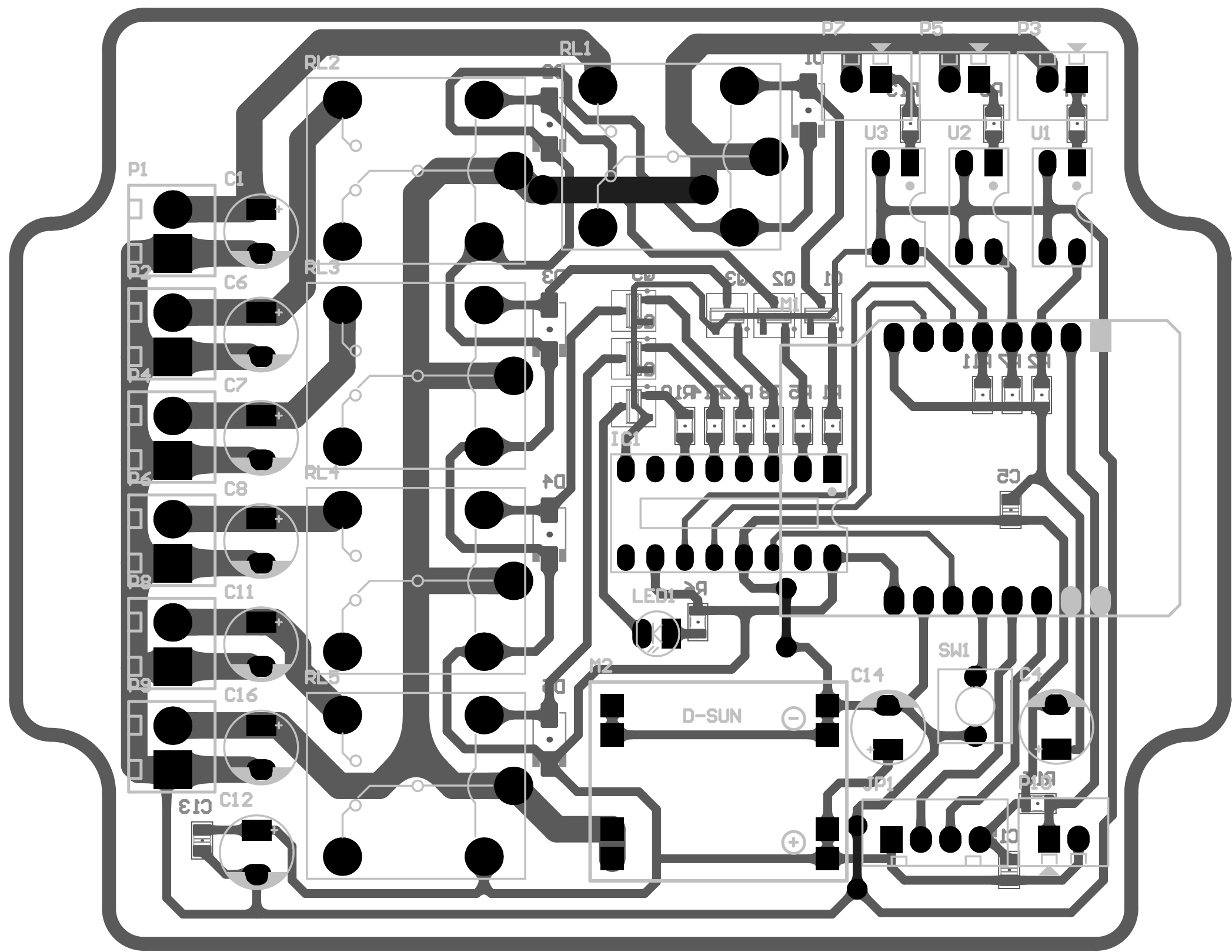


| Title | | |
|-------|-------------------------------------|-----------|
| Size | Number | Revision |
| A4 | | |
| Date: | 4/9/2018 | Sheet of |
| File: | C:\Users\...\SmartMushroomV1.SchDoc | Drawn By: |



| Comment | Description | Designator | Footprint | LibRef | Quantity |
|------------------|---|--|------------------|------------------|----------|
| 470uF | Cap 100uF/35V - 470uF/16V | C1, C4, C6, C7, C8, C11, C12, C14, C16 | CP1.5/2.5 | CP3 | 9 |
| 104 | Cap np 1pF - 472pF | C5, C13, C15 | CAPC2012N_F | CN1 | 3 |
| SS34 | Diode 1A | D1, D2, D3, D4, D5 | DO-214AC | D1A | 5 |
| 74HC595 | 8-Bit Parallel In/Serial Out Shift Register | IC1 | DIP16/W0.3 | 74HC595 | 1 |
| JP4 | Connector 4 | JP1 | CON4 | Con4 | 1 |
| STATUS | LED Single colour Green and Red | LED1 | LED-3mm Red | LED_3 | 1 |
| Wemos D1 Mini Up | Wemos D1 Mini Wiphi is top Up | M1 | Wemos D1 Mini Up | Wemos D1 Mini Up | 1 |
| MP1584 | | M2 | MP1584 Module | MP1584 Module | 1 |
| PUMP_1 | Header, 2-Pin | P1 | HED2 3.81 | Header 2 | 1 |
| PUMP_2 | Header, 2-Pin | P2 | HED2 3.81 | Header 2 | 1 |
| Header 2 | Header, 2-Pin | P3, P5, P7, P10 | CON2 | Header 2 | 4 |
| WATER_IN | Header, 2-Pin | P4 | HED2 3.81 | Header 2 | 1 |
| FAN_OUT | Header, 2-Pin | P6 | HED2 3.81 | Header 2 | 1 |
| LIGHT_OUT | Header, 2-Pin | P8 | HED2 3.81 | Header 2 | 1 |
| 12VDC | Header, 2-Pin | P9 | HED2 3.81 | Header 2 | 1 |
| C1815 | NPN 600mW, ECB | Q1, Q2, Q3, Q4, Q5, Q6 | SOT23-3 | C1815 | 6 |
| 220 | Resistor | R1, R2, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15 | RESC2012N_F | Res 1/4 W | 14 |
| Relay 5V10A | Relay SPDT,10A - 12VDC 5 Pin | RL1, RL2, RL3, RL4, RL5 | RL_SPDT_10A | Relay 5 | 5 |
| SW | Switch button 2 pin | SW1 | SW2 | SW2 | 1 |
| PC817 | Single Opto | U1, U2, U3 | DIP4/W0.3 | PC817 | 3 |
| | | | | | |