Kicad for Software Developers EESchema

| Reference | Symbol | Value |
|-----------|--------------------------------|-----------------|
| C1 | Device:C_Small | 220nF |
| C2 | Device:CP1_Small | 470uF |
| C3 | Device:CP1_Small | 470uF |
| C4 | Device:C_Small | 1uF |
| D1 | Diode_Bridge:MB6S | MB6S |
| D2 | Device:D_Schottky | SS14FL |
| D3 | Device:D_TVS | TV02W360B-G |
| D4 | Device:D_TVS | TV02W360B-G |
| H1 | Mechanical:MountingHole | MountingHole |
| H2 | Mechanical:MountingHole | MountingHole |
| Н3 | Mechanical:MountingHole | MountingHole |
| H4 | Mechanical:MountingHole | MountingHole |
| J1 | Connector:Screw_Terminal_01x05 | |
| J2 | Connector:Conn_01x05_Male | Conn_01x05_Male |
| L1 | Device:L_Small | 27uH |
| PWR_FLAG | power:PWR_FLAG | |
| Q1 | Transistor_FET:FDS6890A | NTMD5838NLR2G |
| R1 | Device:R_Small_US | 3.32k |
| R2 | Device:R_Small_US | 1k |
| R3 | Device:R_Small_US | 10k |
| R4 | Device:R_Small_US | 10k |
| R5 | Device:R_Small_US | 10k |
| R6 | Device:R_Small_US | 10k |
| SW1 | Switch:SW_SPST | EVQ-Q2K03W |
| U1 | Regulator_Switching:LM2841Y | LM2841Y-Q1 |
| U2 | RF_Module:ESP-12F | ESP-12F |
| | | |

Shortcuts

Ctrl-Z - Undo

F1 - Zoom In

F2 - Zoom Out

a - Add component

m - Move component

r - Rotate component

x - Flip component around X axis

y - Flip component around Y axis

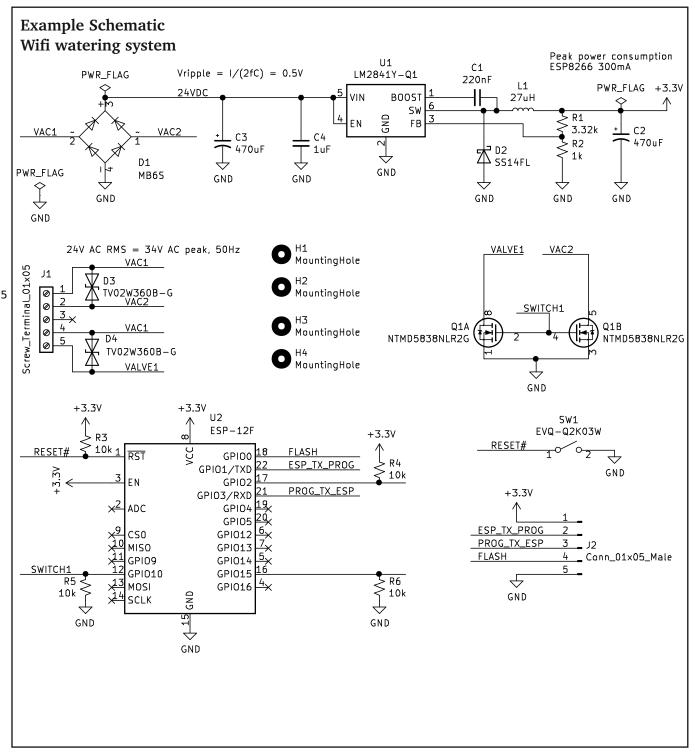
c - Copy component

w - Place Wire

I - Place net Label

p - Place power Port

Del - Delete



Kicad for Software Developers **PCBNew**

Reference Footprint Capacitor SMD:C 0603 1608Metric C1 Capacitor THT:C Radial D12.5mm H20.0mm P5.00mm C2 Capacitor THT:C Radial D12.5mm_H20.0mm_P5.00mm **C3** C4 Capacitor SMD:C 0603 1608Metric D1 Package TO SOT SMD:TO-269AA Diode SMD:D SOD-123F D2 Diode SMD:D SOD-123 **D3** Diode SMD:D SOD-123 D4 MountingHole: MountingHole 3.2mm M3 H1 MountingHole: MountingHole 3.2mm M3 H2 MountingHole: MountingHole 3.2mm M3 Н3 MountingHole: MountingHole 3.2mm M3 H4 TerminalBlock_Phoenix:TerminalBlock_Phoenix PT-1,5-5-11 5.0-H 1x05 P5.00mm Horizontal Connector PinHeader 1.27mm:PinHeader 1x05 P1.27 12 mm Vertical Inductor SMD:L 0805 2012Metric L1 01 Package SO:SOIC-8 3.9x4.9mm P1.27mm R1 Resistor SMD:R 0603 1608Metric R2 Resistor SMD:R 0603 1608Metric **R3** Resistor SMD:R 0603 1608Metric Resistor SMD:R 0603 1608Metric R4 R5 Resistor SMD:R 0603 1608Metric Resistor SMD:R 0603 1608Metric R6 SW1 Button Switch SMD:SW SPST EVQQ2 U1 Package TO SOT SMD:TSOT-23-6 U2 RF Module: ESP-12E

Shortcuts

Ctrl-Z - Undo

F1 - Zoom In

F2 - Zoom Out

m - Move component

r - Rotate component

x - Add track

v - Add via (when adding track)

v - Switch layer (not adding track)

Copper Layers: Board Thickness:

Enabled

1.6

Type

Off-board, testing

mm

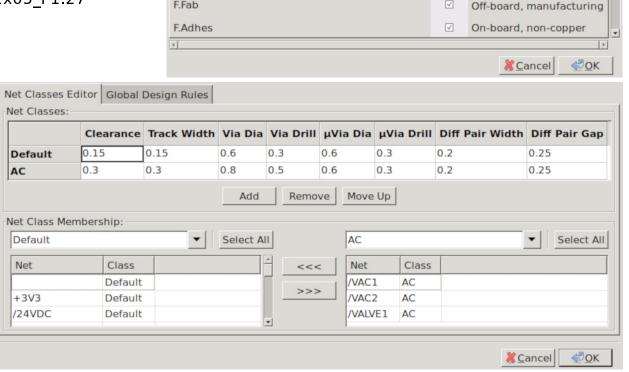
Del - Delete

•

u - Select trace branch

i - Select trace tree

b - Pour zones



Preset Layer Groupings:

Layers:

F.CrtYd

F.Fab

Two layers, parts on Front only

Name