



| Comment            | Description          | Designator | Footprint           | LibRef              | Quantity |
|--------------------|----------------------|------------|---------------------|---------------------|----------|
| Header 7           |                      |            | 4 HEADER x7         | Header 7            | 1        |
| Test point         |                      | 4.2V       | TEST_POINT_VIA      | Test point          | 1        |
| Test point         |                      | 5V         | TEST_POINT_VIA      | Test point          | 1        |
| Test point         |                      | 12V        | TEST_POINT_VIA      | Test point          | 1        |
| AMS1117-3V3        | AMS1117-3.3V 1A SC   | AMS1       | AMS1117             | AMS1117-3V3         | 1        |
| 220uF/25V/Aluminu  | Aluminum Capacitor   | C1         | CAP_ALU_SIZEE       | CAP_ALU_220uF_25V   | 1        |
| 100uF/25V/Aluminu  | Aluminum Capacitor   | C2         | CAP_ALU_SIZEE       | CAP_ALU_220uF_25V   | 1        |
| 1uF/16V/1210       | Ceramic Capacitor 1C | C3         | CAP_1210(3225)      | CAP_CER_10uF_16V    | 1        |
| 1uF/16V/1210       | Ceramic Capacitor 1C | C4         | CAP_1210(3225)      | CAP_CER_10uF_16V    | 1        |
| 100uF/25V/Aluminu  | Aluminum Capacitor   | C5         | CAP_ALU_SIZEE       | CAP_ALU_220uF_25V   | 1        |
| 220uF/25V/Aluminu  | Aluminum Capacitor   | C6         | CAP_ALU_SIZEE       | CAP_ALU_220uF_25V   | 1        |
| 1uF/16V/1210       | Ceramic Capacitor 1C | C7         | CAP_1210(3225)      | CAP_CER_10uF_16V    | 1        |
| 100nF/0603         | Ceramic Capacitor 1C | C8         | CAP_0603(1508)      | CAP_CER_10uF_16V    | 1        |
| 100uF/6.3V         | Tantalum SMD capac   | C9         | CAP_TAN_1210(3528)  | CAP_TANTA_100uF     | 1        |
| 22uF/00805         | Ceramic Capacitor 1C | C10        | CAP_0603(1508)      | CAP_CER_10uF_16V    | 1        |
| 100nF/0603         | Ceramic Capacitor 1C | C11        | CAP_0603(1508)      | CAP_CER_10uF_16V    | 1        |
| 100nF/0603         | Ceramic Capacitor 1C | C12        | CAP_0603(1508)      | CAP_CER_10uF_16V    | 1        |
| 100nF/0603         | Ceramic Capacitor 1C | C13        | CAP_0603(1508)      | CAP_CER_10uF_16V    | 1        |
| S534-A             | Diode LS 1A 1000V D  | D1         | 1N4007              | 1N4007              | 1        |
| S534-A             | Diode LS 1A 1000V D  | D2         | 1N4007              | 1N4007              | 1        |
| S534-A             | Diode LS 1A 1000V D  | D3         | 1N4007              | 1N4007              | 1        |
| B340A              | Diode LS 1A 1000V D  | D5         | 1N4007              | 1N4007              | 1        |
| B340A              | Diode LS 1A 1000V D  | D6         | 1N4007              | 1N4007              | 1        |
| ESP32-WROOM-32     |                      | ESP1       | ESP32-WROOM-32U     | ESP32-WROOM-32      | 1        |
| 2.6A/15V/SMD1812   |                      | F1         | SMD 1812            | Fuse                | 1        |
| Test point         |                      | GND        | TEST_POINT_VIA      | Test point          | 1        |
| LED_RED            | LED Red              | IN1        | LED0805RED          | LED_RED             | 1        |
| LED_RED            | LED Red              | IN2        | LED0805RED          | LED_RED             | 1        |
| Terminal           | Terminal             | J1         | Terminal 4P 90EDG 3 | Terminal x4         | 1        |
| Terminal           | Terminal             | J2         | Terminal 4P 90EDG 3 | Terminal x4         | 1        |
| 47uH 3A DIP 8x10mm |                      | L1         | Inductor SMD 12x12x | Inductor            | 1        |
| 47uH 3A DIP 8x10mm |                      | L2         | Inductor SMD 12x12x | Inductor            | 1        |
| FB                 | FERRITE BEAD 600 O   | L3         | Inductor SMD 0805   | Inductor            | 1        |
| FB                 | FERRITE BEAD 600 O   | L4         | Inductor SMD 0805   | Inductor            | 1        |
| LM2596S-5V         | LM2596S-5V           | LM1        | LM2596S TO263-5     | LM2596S-5V          | 1        |
| LM2596S-5V         | LM2596S-5V           | LM2        | LM2596S TO263-5     | LM2596S-5V          | 1        |
| LED_RED            | LED Red              | OU2        | LED0805RED          | LED_RED             | 1        |
| LED_RED            | LED Red              | OUT1       | LED0805RED          | LED_RED             | 1        |
| LED_RED            | LED Red              | POW        | LED0805RED          | LED_RED             | 1        |
| S8050              | NPN                  | Q1         | 25C1815-SMD         | 25C1815             | 1        |
| 2.2K               | Resistor 0603        | R1         | RES_0603(1608)      | Resistor 0603       | 1        |
| 1K                 | Resistor 0603        | R2         | RES_0603(1608)      | Resistor 0603       | 1        |
| 1K                 | Resistor 0603        | R3         | RES_0603(1608)      | Resistor 0603       | 1        |
| 10K                | Resistor 0603        | R4         | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R5         | RES_0603(1608)      | Resistor 0603       | 1        |
| 10K                | Resistor 0603        | R6         | RES_0603(1608)      | Resistor 0603       | 1        |
| 10K                | Resistor 0603        | R7         | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R8         | RES_0603(1608)      | Resistor 0603       | 1        |
| 10K                | Resistor 0603        | R9         | RES_0603(1608)      | Resistor 0603       | 1        |
| 10R                | Resistor 0603        | R10        | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R11        | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R12        | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R13        | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R14        | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R15        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R16        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R17        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R18        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R19        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R20        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R21        | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R22        | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R23        | RES_0603(1608)      | Resistor 0603       | 1        |
| 330R               | Resistor 0603        | R24        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R25        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R26        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R27        | RES_0603(1608)      | Resistor 0603       | 1        |
| 100R               | Resistor 0603        | R28        | RES_0603(1608)      | Resistor 0603       | 1        |
| LED_BLUE           | LED Blue             | RXD        | LED0805BLUE         | LED_BLUE            | 1        |
| LED_BLUE           | LED Blue             | TXD        | LED0805BLUE         | LED_BLUE            | 1        |
| STWD100xxWY3F      | Supervisor Open Dra  | U1         | STWD100xxWY3F       | STWD100xxWY3F       | 1        |
| TLP291-1K          | Transistor Output Og | U2         | TLP219-4Pin         | TLP291              | 1        |
| TLP291-1K          | Transistor Output Og | U3         | TLP219-4Pin         | TLP291              | 1        |
| TLP291-1K          | Transistor Output Og | U4         | TLP219-4Pin         | TLP291              | 1        |
| TLP291-1K          | Transistor Output Og | U5         | TLP219-4Pin         | TLP291              | 1        |
| Header 6           |                      | UL1        | HEADER x6           | Header 6            | 1        |
| 10D390K            |                      | VR1        | Varistor 10DXXXXk   | Cap Metal Oxide Var | 1        |
| Header 2           |                      | wd1        | HEADER x2           | Header 2            | 1        |
| LED_BLUE           | LED Blue             | WIR        | LED0805BLUE         | LED_BLUE            | 1        |