| 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ARDUNO CON1, CON 01 P1 P2 P3 P4 P5 | | PCBComponent_1 | 1 Op Amp 2- PWR_7-12V 2- B4/B+ 2- Panel Switch 2- B2/B3 | CMP-1f01d29ed047c0c6-3 CMP-ab506251400c7497-5 L272M 282834-2 282834-2 282834-2 282834-2 |
|---|--|--|--|---|---|
| 2 1 1 1 1 1 1 1 | O1 P1 | Plating L272 Series 350 kHz 1 V/us Dual Power Operational Amplifier Through Hole - DIP-8 Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | PCB-407or3mtd1cfc3ttymu- PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ | 1 Op Amp 2- PWR_7-12V 2- B4/B+ 2- Panel Switch 2- B2/B3 | L272M 282834-2 282834-2 282834-2 |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | O1 P1 P2 P3 P4 P5 | L272 Series 350 kHz 1 V/us Dual Power Operational Amplifier Through Hole - DIP-8 Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ | 2- PWR_7-12V 2- B4/B+ 2- Panel Switch 2- B2/B3 | 282834-2 282834-2 282834-2 |
| 1 | O1 P1 P2 P3 P4 P5 | Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ 1 PCB-6xmgco598u3mra2uzi/ | 2- PWR_7-12V 2- B4/B+ 2- Panel Switch 2- B2/B3 | 282834-2 282834-2 282834-2 |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | P1 P2 P3 P4 P5 | Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | 1 PCB-6xmgco598u3mra2uzi2 1 PCB-6xmgco598u3mra2uzi2 1 PCB-6xmgco598u3mra2uzi2 1 PCB-6xmgco598u3mra2uzi2 | 2- B4/B+ 2- Panel Switch 2- B2/B3 | 282834-2 282834-2 |
| 1 1 1 1 1 1 1 1 | P1 P2 P3 P4 P5 | Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | 1 PCB-6xmgco598u3mra2uzi2 1 PCB-6xmgco598u3mra2uzi2 1 PCB-6xmgco598u3mra2uzi2 1 PCB-6xmgco598u3mra2uzi2 | 2- B4/B+ 2- Panel Switch 2- B2/B3 | 282834-2 282834-2 |
| 1 1 1 1 1 1 1 1 1 | P2 P3 P4 P5 | Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | 1 PCB-6xmgco598u3mra2uzi2 1 PCB-6xmgco598u3mra2uzi2 1 | 2- Panel Switch 2- B2/B3 | 282834-2 |
| 1 1 1 1 1 1 | P3 P4 P5 | Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | 1 PCB-6xmgco598u3mra2uzi2 | 2- B2/B3 | |
| 1 1 1 | P4 P5 | | 1 | | 282834-2 |
| 1 1 | P5 | Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | PCB-6xrngco598u3mra2uzi2 | | 1 |
| 1 | | | 1 1 | 2- Pack Switch | 282834-2 |
| | P6 | Conn; Term Blk; PCB; Wire Receptacle; 4; 2.54mm; 30-16AWG; Green; 10A; 150V; M1.6 | PCBComponent_1 - duplicat | te UART (5V GND RX TX) | 282834-4 |
| 1 | P7 | Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | PCB-6xmgco598u3mra2uzi2 | 2- V_Panel/B1 | 282834-2 |
| 1 | P8 | Wire-To-Board Terminal Block, 2, 150 V, 10 A, 30 Awg, 16 Awg, 1.4 Mm | PCB-6xmgco598u3mra2uzi2 | 2- Shunt Voltage | 282834-2 |
| 2 | Q1, Q2 | N-Fet to220 | PCB-18787308-1 | IRFZ44N | IRFZ44NPBF |
| 1 | R1 | RES SMD 39K OHM 1% 1/10W 0603 | R0603-nominal | 39k | CRCW060339K0FKEA |
| 1 | R2 | RES SMD 33K OHM 1% 1/10W 0603 | RESC1609X50X30ML10T20 | 33k | CRCW060333K0FKEA |
| 8 | R3, R4, R5, R10, R11 | 5, R6, R8, R9, Res Thin Film 0603 10K Ohm 0.1% 1/16W ±25ppm/°C Molded SMD SMD Paper T/R | PCB-ojnm16i5yp9twv7iv4rl-1 | 1 10k | 1614881-1 |
| 1 | R7 | Precision resistor, SMD [Panasonic Automotive & Industrial Systems] ERJ3EKF2202V Precision resistor, SMD | on RESC1608X06M | 22k | ERJ-3EKF2202V |
| 1 | R12 | Precision resistor, SMD [Panasonic Automotive & Industrial Systems] ERJ3EKF8202V Precision resistor, SMD | on 0603R_A | 82k | ERJ-3EKF8202V |
| 2 | R13, R14 | PANASONIC ERJP03F3300V RESISTOR, THICK FILM, 330 OHM, 0.2W, 1% | 0603-RES | 330 | ERJP03F3300V |
| 4 | R15 | Res Thick Film 0603 120 Ohm 5% 0.1W(1/10W) ???)200ppm/???? Molded SMD Automotive Punched T/R | PCB-t6ekw5j97c0433t8n4ev | V- Res1 | ERJ-3GEYJ121V |
| 1 | TR1 | Trimmer; Cermet; Rest 50 Kilohms; PCB; Pwr-Rtg 0.5W; Dim 0.375lnLx0.19lnWx0.395lnH | PCB-l67f2lsv3qiirb5b93po-1 | Bourns 3296W-1-503LF | 3296W-1-503LF |
| _ | 1 2 1 1 | 2 R13, R14 1 R15 | resistor, SMD | resistor, SMD | Tesistor, SMD |





