

| Uploaded BOM Data | | | | Review Matched Parts | | | | | | |
|---------------------|----------------------|-------------|----------------|--|-----|--------|----------|------------|--------|--|
| Top Designator | Bottom Designator | Comment | Footprint | Matched Part Detail | Qty | Source | Lib Type | Total Cost | Select | |
| | C1,C4,C8,C14,C15,... | .47uF | Capacitor_S... | CA45-A-35V-0.47UF-K C1021641 470nF 35V ±10% CASE-A-3216-16(mm) Tan... | 58 | JLCP | Extended | \$4.2050 | | |
| | C2,C3,C10,C11,C1... | 10uF | Capacitor_S... | CL10A106KP8NNNC C19702 10V 10uF X5R ±10% 0603 Multilayer Cerami... | 44 | JLCP | Basic | \$0.2376 | | |
| | C7,C32,C61,C113 | 47uF | Capacitor_S... | CL21A476MQYNNNE C16780 6.3V 47uF X5R ±20% 0805 Multilayer Ceram... | 20 | JLCP | Basic | \$0.5040 | | |
| | C22 | 330uF | Capacitor_S... | XT330UF25V90RV0127 C3148159 330uF 25V 220mA@120Hz ±20% SMD,D8xL... | 5 | JLCP | Extended | \$0.4020 | | |
| | C35 | 2.2uF | Capacitor_S... | CA45-A-25V-2.2uF-K C2798027 2.2uF 25V ±10% CASE-A-3216-16(mm) Tant... | 6 | JLCP | Extended | \$0.4998 | | |
| C42,C66 | C5,C9,C19,C20,C2... | 4.7uF | Capacitor_S... | RVT2A4R7M0607 4.7UF 100VC970653 4.7uF 100V 38mA@120Hz ±20% SMD,D6.3x... | 32 | JLCP | Extended | \$1.2672 | | |
| | C43,C44,C45 | 1uF | Capacitor_S... | CL05A105KA5NQNC C52923 25V 1uF X5R ±10% 0402 Multilayer Ceramic... | 20 | JLCP | Basic | \$0.0500 | | |
| C94,C95,C96,C97,... | C39,C52,C53,C56,... | .1uF | Capacitor_S... | CL05B104K05NNNC C1525 16V 100nF X7R ±10% 0402 Multilayer Cera... | 44 | JLCP | Basic | \$0.0484 | | |
| C701,C702 | | 22uF | Capacitor_S... | CL10A226MQ8NRNC C59461 6.3V 22uF X5R ±20% 0603 Multilayer Ceram... | 20 | JLCP | Basic | \$0.1420 | | |
| C110 | C98,C105,C106,C1... | .01uF | Capacitor_S... | CL05B103KB5NNNC C15195 50V 10nF X7R ±10% 0402 Multilayer Cerami... | 40 | JLCP | Basic | \$0.0520 | | |
| C99 | C6,C12,C25,C28,C... | 100uF | Capacitor_S... | HGC1210R5107M160NSVKC7432790 16V 100uF X5R ±20% 1210 Multilayer Cera... | 17 | JLCP | Extended | \$5.9415 | | |
| CON1 | | AVR-JTA... | DFTcustom:... | 1-215464-0 C5163841 WTB CONN HEADER 10POS 2ROW | 2 | JLCP | Extended | \$1.9200 | | |
| D701 | | D_Schottky | Diode_SMD:... | PMEG4030ER,115 C389355 40V 540mV@3A 3A SOD-123 Schottky Diod... | 5 | JLCP | Extended | \$0.4605 | | |
| D4 | D7 | BLUELED | Capacitor_S... | 150060YS75000 C6784997 Description: Standard LEDs - SMD WL-SMC... | 10 | JLCP | Extended | \$2.0610 | | |
| | FB1 | 120R,100... | 120R,100M... | 0603WAJ0107T5E C422892 100mW Thick Film Resistors 75V ±100ppm... | 20 | JLCP | Extended | \$0.1160 | | |
| | J8,J601 | Micro_SD... | DFTcustom:... | 114-00841-68 C3195424 1.55mm Gold MicroSD card (TF card) Plug-i... | 4 | JLCP | Extended | \$3.7380 | | |
| | J401 | Headerso... | | 430300001 C259786 20~24 - Housing Contact ROHS | 20 | JLCP | Extended | \$0.2500 | | |
| J701 | | FFC2B28-... | FFC2B28-4... | FH12-40S-0.5SH(55) C202114 -40°C~+85°C Flip type 40P Bottom Contact ... | 2 | JLCP | Extended | \$1.3350 | | |
| J702 | | Conn_01x... | Connector_... | 2.54-1*16P母 C66987 2.54mm Single Row 16P Direct Insert Plugi... | 2 | JLCP | Extended | \$0.2040 | | |
| L701 | | 4.7uH | Capacitor_S... | LQH32CN4R7M23L C86070 450mA 4.7uH ±20% 1210 Power Inductors ... | 5 | JLCP | Extended | \$0.5490 | | |
| L2 | L1,L3,L4 | 2.2uH | Capacitor_S... | SMNR4020-2.2UH C135262 3.4A 2.2uH ±20% 3.4A SMD,4x4x2mm Pow... | 16 | JLCP | Extended | \$0.7952 | | |
| Q8 | Q1,Q2,Q3,Q4,Q5,Q6 | IRLML2502 | Package_T... | IRLML2502 C5364308 20V 4.2A 1PCSNChannel SOT-23 MOSFETs ... | 22 | JLCP | Extended | \$0.9108 | | |
| | R7,R49 | 2401% | Resistor_S... | RCM04022401%N C325384 62.5mW ±1% 240Q 0402 Chip Resistor - Sur... | 20 | JLCP | Extended | \$0.0440 | | |
| R19,R20,R23 | R11,R12,R13,R14,... | 100 | Resistor_S... | 0105WHJ0101TDE C270299 31.25mW Thick Film Resistors 15V ±5% ±4... | 44 | JLCP | Extended | \$0.2464 | | |
| R21,R24,R78 | R102 | 150 | Resistor_S... | 0402WGF1500TCE C25082 62.5mW Thick Film Resistors 50V ±100ppm... | 40 | JLCP | Extended | \$0.0240 | | |
| | R25,R91,R92,R93,... | 20k | Resistor_S... | MCR004YZPJ203 C307990 31mW Thick Film Resistors 15V ±5% ±250p... | 28 | JLCP | Extended | \$0.1568 | | |
| | R30 | 49.9k | Resistor_S... | RC0100FR-0749K9L C850275 31.25mW Thick Film Resistors ±1% ±200pp... | 20 | JLCP | Extended | \$0.0540 | | |
| R47,R48,R703,R70... | | 10k1% | Resistor_S... | RMCI20610K1%N C269766 250mW ±1% 10kQ 1206 Chip Resistor - Surf... | 30 | JLCP | Extended | \$0.2280 | | |
| R77,R701 | R105 | 1k | Resistor_S... | RC0100FR-071KL C606165 31.25mW Thick Film Resistors 15V ±1% ±2... | 40 | JLCP | Extended | \$0.1680 | | |
| | R88,R89,R90 | 0.05 | Resistor_S... | 25121WF500MT4E C127698 1W Thick Film Resistors 200V ±1% 50mQ 2... | 10 | JLCP | Extended | \$0.3630 | | |
| | R99,R601 | 47k | Resistor_S... | 0402WGF4702TCE C25792 62.5mW Thick Film Resistors 50V ±100ppm... | 20 | JLCP | Basic | \$0.0120 | | |
| | R100 | 24.91% | Resistor_S... | RCM040224.91%N C325529 62.5mW ±1% 24.9Q 0402 Chip Resistor - Su... | 20 | JLCP | Extended | \$0.0440 | | |
| R702 | | 30k | Resistor_S... | 0402WGF3002TCE C25776 62.5mW Thick Film Resistors 50V ±100ppm... | 20 | JLCP | Extended | \$0.0120 | | |
| R104 | R8,R9,R10,R74,R9... | 4.7k | Resistor_S... | 0105WHJ0472TDE C423829 31.25mW Thick Film Resistors 15V ±5% 4.7... | 42 | JLCP | Extended | \$0.1932 | | |
| R26 | R301 | 47 | Resistor_S... | 1SMA4747A C19077484 Independent Type 19V~21V 1W 20V SMA(D... | 12 | JLCP | Extended | \$0.4236 | | |
| R33 | R6 | 10k | Resistor_S... | RC0100FR-0710KL C364373 31.25mW Thick Film Resistors 15V ±200pp... | 40 | JLCP | Extended | \$0.1160 | | |

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|-------------------|----------------------|-------------|-----------------|---|----------------|-----------|--------|----------|-------------|--|
| R5 | R1,R2,R3,R4,R29,R... | 100k | Resistor_S... | RC0100FR-07100KL 31.25mW Thick Film Resistors 15V ±1% ±2... | C723496 ⓘ | 42 | JLCPCB | Extended | \$0.1260 ⓘ | |
| R73 | R51,R52,R53,R54,... | 40.21% | Resistor_S... | 0402WGF402JTCE 62.5mW Thick Film Resistors 50V ±100ppm... | C25111 ⓘ | 74 | JLCPCB | Extended | \$0.0444 ⓘ | |
| R76 | R50,R75 | 80.61% | Resistor_S... | MELF-MFR02041/4WS80.6QFT50C265995 250mW ±1% 80.6Ω MELF Chip Resistor - Su... | | 40 | JLCPCB | Extended | \$0.8280 ⓘ | |
| SW701,SW702,SW... | | SW_PUSH | Button_Swit... | TL3305AF260QG Without 50mA 4.5mm 100MQ 200,000 Tim... | C2886902 ⓘ | 8 | JLCPCB | Extended | \$1.8264 ⓘ | |
| | U1,U2 | LM3880 | Package_T... | LM3880MF-1AA/NOPB 2.7V~5.5V SOT-23-6 Supervisor and Reset I... | C486059 ⓘ | 4 | JLCPCB | Extended | \$2.1420 ⓘ | |
| | U3 | SC189-1.... | Package_T... | SC189ASKTRT Step-down type Fixed 2.9V~5.5V 1.5A 1V S... | C842838 ⓘ | 4 | JLCPCB | Extended | \$2.2860 ⓘ | |
| | U7 | SC189-1.... | Package_T... | SC189ASKTRT Step-down type Fixed 2.9V~5.5V 1.5A 1V S... | C842838 ⓘ | | | | | |
| | U4 | SC189-3.... | Package_T... | SC189ZSKTRT Step-down type Fixed 3.3V 2.9V~5.5V 1.5A ... | C2650317 ⓘ | 2 | JLCPCB | Extended | \$2.0970 ⓘ | |
| | U5 | TLV6208... | Package_S... | TLV62084DSGR Step-down type Adjustable 500mV~4V 2A 2... | C181488 ⓘ | 5 | JLCPCB | Extended | \$1.8675 ⓘ | |
| | U8 | TPS5120... | Package_S... | TPS51200DRCR VSON-10-EP(3x3) Power Management - Spe... | C34771 ⓘ | 5 | JLCPCB | Extended | \$0.8905 ⓘ | |
| | U9 | TLV320AI... | Package_D... | TLV320AIC3104IRHBR HVQFN-32-EP(5x5) Audio Amplifiers ROHS | C181753 ⓘ | 2 | JLCPCB | Extended | \$2.2380 ⓘ | |
| U16 | | MT41K25... | DFTcustom:... | MT41K256M16TW-107 IT:PC367428 FBGA-96 DDR SDRAM ROHS | C181753 ⓘ | 2 | JLCPCB | Extended | \$2.9850 ⓘ | |
| U17 | | FTDIType... | DFTcustom:... | IPL1-106-01-L-S-K CONN HEADER VERT 6POS 2.54MM | C5183022 ⓘ | 2 | JLCPCB | Extended | \$5.6940 ⓘ | |
| | U18 | ABRACO... | XTAL_AS... | ASDMB-24.000MHZ-LC-T ±50ppm 1.8V~3.3V SMD2520-4P Program... | C2650742 ⓘ | 2 | JLCPCB | Extended | \$2.9700 ⓘ | |
| | U19 | S25FL25... | footprints:C... | S25FL256SAGNFI001 WS0N-8-EP(6x8) NOR FLASH ROHS | C466862 ⓘ | 2 | JLCPCB | Extended | \$9.2550 ⓘ | |
| U20 | | xc7z020c... | | XC7Z020-1CLG484I BGA-484 Programmable Logic Device (CPL... | C89055 ⓘ | 2 | JLCPCB | Extended | \$40.7790 ⓘ | |
| U23 | | LSM6DSL... | Package_L... | LSM6DSLTR Accelerometer gyroscope LGA-14(2.5x3) Ac... | C126672 ⓘ | 2 | JLCPCB | Extended | \$3.5670 ⓘ | |
| U701 | | MT3608 | Package_T... | MT3608 Boost type 28V 2V~24V SOT-23-6 DC-DC C... | C84817 ⓘ | 6 | JLCPCB | Extended | \$0.3666 ⓘ | |
| D1,D2 | | LED_RGB | DFTcustom:... | No Part Selected | Search | Pre-order | | | | |
| J3 | | AUDIOJA... | DFTcustom:... | No Part Selected | Search | Pre-order | | | | |

Please carefully check the packages of selected parts before proceeding.

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