

| Designator | Description | Qty | Value | Limits | Tolerance | Footprint |
|---|----------------------------|-----|-------------------|--------|-----------|-----------|
| Resistors | | | | | | |
| R27,R28 | Thick film resistor | 2 | 4.7R | | 1,00 % | 0805 |
| R1,R23 | Thick film resistor | 2 | 47R | | 1,00 % | 0402 |
| R3,R46,R47,R48,R49 | Thick film resistor | 5 | 56R | | 1,00 % | 0805 |
| R26 | Thick film resistor | 1 | 100R | | 1,00 % | 0402 |
| R5,R7,R14,R20,R21,R24,R29,R31,R37,R45 | Thick film resistor | 10 | 220R | | 1,00 % | 0805 |
| R33,R44 | Thick film resistor | 2 | 220R | | 1,00 % | 0402 |
| R57,R58 | Thick film resistor | 2 | 470R | | 1,00 % | 0805 |
| R34 | Thick film resistor | 1 | 680R | | 1,00 % | 0402 |
| R35 | Thick film resistor | 1 | 1.2k | | 1,00 % | 0402 |
| R2,R9,R10,R11,R12,R16,R17,R18,R22,R25 R42,R43 | Thick film resistor | 12 | 2.2k | | 1,00 % | 0402 |
| R6,R13,R32,R36,R38,R39,R40,R41 | Thick film resistor | 8 | 4.7k | | 1,00 % | 0402 |
| R50,R51 | Thick film resistor | 2 | 10k | | 1,00 % | 0402 |
| R8,R15,R53,R54 | Thick film resistor | 4 | 20k | | 1,00 % | 0402 |
| R52 | Thick film resistor | 1 | 22k | | 1,00 % | 0402 |
| R4,R19,R59,R60 | Thick film resistor | 4 | 75k | | 1,00 % | 0402 |
| R55,R56,R61 | Thick film resistor | 3 | 100k | | 1,00 % | 0402 |
| R30 | Thick film resistor | 1 | 1.0M | | 1,00 % | 0402 |
| TR1 | Multiturn trimmer | 1 | 10k | | | 3296W |
| Capacitors | | | | | | |
| C15,C19,C21 | Film capacitor | 3 | 47nF | 63v | 10,00 % | 5.08mm |
| C1,C2,C5,C12,C14,C27 | Ceramic capacitor | 6 | 100nF | 16v | 10,00 % | 0402 |
| C3,C16 | Ceramic capacitor | 2 | 4.7uF | 50v | 10,00 % | 1206 |
| C7,C8,C9,C10,C11,C13,C17,C18,C20,C22 C23,C24,C25,C26,C28 | Ceramic capacitor | 15 | 10uF | 50v | 10,00 % | 1206 |
| C4,C6 | Electrolytic capacitor | 2 | 100uF | 16v | 20,00 % | 5x5.3mm |
| Miscs | | | | | | |
| L1,L2,L3,L4 | Ferrite bead | 4 | 600R @ 100MHz | 300mA | | 0603 |
| Semiconductors | | | | | | |
| D1,D7,D8,D9 | Signal diode | 4 | 1N4148WS | 150mA | | SOD-323 |
| D2,D3,D4,D5 | Schottky diode | 4 | B5819W | 1A | | SOD-123 |
| D6 | 3mm red LED | 1 | | | | |
| Q1,Q2,Q5,Q6 | NPN / PNP BJT | 4 | BC847BPN | 100mA | | SOT363 |
| Q3,Q4,Q7,Q8 | NPN BJT | 4 | BC847 | 100mA | | SOT-23-3 |
| ICs | | | | | | |
| U1 | Optocoupler logic | 1 | H11L1 | | | DIL6 |
| U2 | +3v3 LDO regulator | 1 | AZ1117H-3.3 | | | SOT223 |
| U3 | Stereo DAC | 1 | TM8211 | | | SOIC8 |
| U4 | 16bit MCU | 1 | PIC24FJ256GA702 | | | DIL28 |
| U5 | Quad optocoupler | 1 | LTV-847 | | | DIL16 |
| U6 | Rail-to-rail opamp | 1 | MC33202DR2G | | | SOIC8 |
| Switches & pots | | | | | | |
| RV5,RV6 | 10k linear pot | 2 | PTV09A-4020F-B103 | | | |
| RV1,RV2,RV3,RV4 | 100k linear pot | 4 | PTV09A-4020F-B104 | | | |
| SW1 | Power switch | 1 | PB400EEQR1BLK | | | |
| SW2,SW3,SW4,SW5,SW6,SW7,SW8 | Illuminated tactile switch | 7 | TS6-00-7RR | | | |
| TG1,TG2,TG3 | Subminiature toggle switch | 3 | TS-4-TE1CQ-A5 | | | |
| Connectors | | | | | | |
| J2 | DIN5 socket | 1 | | | | |
| J4 | 2mm DC socket | 1 | | | | |
| J5,J6 | 3.5mm jack socket | 1 | | | | |
| J7 | 6.35mm jack socket | 1 | | | | |