



| Comment | Description | Designator | Footprint | LibRef | Quantity |
|---------------|---|-------------------------------|----------------------------------|--------------------|----------|
| 3.9nF | Cap Ceramic 22pF 100V COG ±5% Radial 2.5mm +125°C Ammo Pack | C1, C6 | FP-RCE0DB-MFG | CMP-06035-047347-1 | 2 |
| 100nF | Cap Ceramic 22pF 100V COG ±5% Radial 2.5mm +125°C Ammo Pack | C2 | FP-RCE0DB-MFG | CMP-06035-047347-1 | 1 |
| 220nF | Aluminum Electrolytic Capacitors (Radial Lead Type) 470uF ±20% 16V | C3 | FP-RAD-TH-D_8_0_5- L_11_5-MFG | CMP-05427-001287-1 | 1 |
| 39nF | Cap Ceramic 22pF 100V COG ±5% Radial 2.5mm +125°C Ammo Pack | C4, C5 | FP-RCE0DB-MFG | CMP-06035-047347-1 | 2 |
| 10uF | Aluminum Electrolytic Capacitor, 10 uF, +/- 20%, 50 V, -40 to 85 degC, 2-Pin THD, RoHS, Bulk | C7, C9, C11, C12, C13, C16 | CAPPR55-200- 1100X500X1200 | CMP-1665-00038-2 | 6 |
| 470uF | Aluminum Electrolytic Capacitors (Radial Lead Type) 470uF ±20% 16V | C8, C14 | FP-RAD-TH-D_8_0_5- L_11_5-MFG | CMP-05427-001287-1 | 2 |
| 47nF | Cap Ceramic 22pF 100V COG ±5% Radial 2.5mm +125°C Ammo Pack | C10, C15 | FP-RCE0DB-MFG | CMP-06035-047347-1 | 2 |
| 1N4148 | DIODE GEN PURP 100V 200MA DO35 | D1, D2, D3 | FP-017AG-MFG | CMP-07163-000046-1 | 3 |
| Power | | J1 | 691101710003 | CMP-1502-03257-2 | 1 |
| Switch | CONN HEADER VERT 2POS 2.5MM | J2 | FP-B2B-XH-A_LF_SN- MFG | CMP-2000-05888-3 | 1 |
| Mic Input | 3.5 mm, Stereo, Right Angle, Surface Mount (SMT), Audio Jack Connector | J3 | CUI_SJ2-3574A-SMT- TR | SJ2-3574A-SMT-TR | 1 |
| Audio Input | 3.5 mm, Stereo, Right Angle, Surface Mount (SMT), Audio Jack Connector | J4 | CUI_SJ2-3574A-SMT- TR | SJ2-3574A-SMT-TR | 1 |
| Pre Amp | CONN HEADER VERT 2POS 2.5MM | J5 | FP-B2B-XH-A_LF_SN- MFG | CMP-2000-05888-3 | 1 |
| Speaker | CONN HEADER VERT 2POS 2.5MM | J6 | FP-B2B-XH-A_LF_SN- MFG | CMP-2000-05888-3 | 1 |
| Main Amp | CONN HEADER VERT 2POS 2.5MM | J7 | FP-B2B-XH-A_LF_SN- MFG | CMP-2000-05888-3 | 1 |
| LED | CONN HEADER VERT 2POS 2.5MM | J8 | FP-B2B-XH-A_LF_SN- MFG | CMP-2000-05888-3 | 1 |
| Relay | Relay or Contactor | K1 | AZ9431CH12DE | AZ943-1CH-12DE | 1 |
| | NPN General-Purpose Amplifier, 40 V VCEO, 0.2 A, -55 to 150 degC, 2-Pin TO-92, RoHS, Bulk | Q1 | FAIR-TO-92 | CMP-2000-04944-1 | 1 |
| 10K | RES 10K OHM 1/8W 5% CF AXIAL | R1, R9, R10, R17, R20 | FP-CF18-MFG | CMP-26528-000002-1 | 5 |
| 22K | RES 10K OHM 1/8W 5% CF AXIAL | R2, R8 | FP-CF18-MFG | CMP-26528-000002-1 | 2 |
| 560 | RES 10K OHM 1/8W 5% CF AXIAL | R3, R27 | FP-CF18-MFG | CMP-26528-000002-1 | 2 |
| 13K | RES 10K OHM 1/8W 5% CF AXIAL | R4, R5 | FP-CF18-MFG | CMP-26528-000002-1 | 2 |
| 1M | RES 10K OHM 1/8W 5% CF AXIAL | R6 | FP-CF18-MFG | CMP-26528-000002-1 | 1 |
| 470 | RES 10K OHM 1/8W 5% CF AXIAL | R7, R15 | FP-CF18-MFG | CMP-26528-000002-1 | 2 |
| 6.8K | RES 10K OHM 1/8W 5% CF AXIAL | R11, R12, R13, R19 | FP-CF18-MFG | CMP-26528-000002-1 | 4 |
| 3.3K | RES 10K OHM 1/8W 5% CF AXIAL | R14, R23 | FP-CF18-MFG | CMP-26528-000002-1 | 2 |
| 18 | RES 10K OHM 1/8W 5% CF AXIAL | R16 | FP-CF18-MFG | CMP-26528-000002-1 | 1 |
| 10 | RES 10K OHM 1/8W 5% CF AXIAL | R18, R26 | FP-CF18-MFG | CMP-26528-000002-1 | 2 |
| VR-Comparator | TRIMMER 10K OHM 0.5W PC PIN TOP | R21 | FP-3296W-MFG | CMP-1747-00001-8 | 1 |
| 1K | RES 10K OHM 1/8W 5% CF AXIAL | R22, R24, R25 | FP-CF18-MFG | CMP-26528-000002-1 | 3 |
| NE5532P | Dual Low-Noise High- Speed Audio Operational Amplifier, 10 to 30 V, 0 to 70 degC, 8-pin DIP (P8), Pb-Free (RoHS) | U1, U2, U4, U5 | P0008A | CMP-0017-00910-2 | 4 |
| LM386N-3/NOPB | Low Voltage Audio Power Amplifier, 0 to 70 degC, 8-pin DIP (P8), Green (RoHS & no Sb/Br) | U3, U6 | TI-P8 | CMP-0994-00138-1 | 2 |