

|    | Quantity | Description                    | RefDes                  |
|----|----------|--------------------------------|-------------------------|
| 1  | 1        | BJT_NPN, BD139                 | Q9                      |
| 2  | 2        | BJT_NPN, MPSA18                | Q2, Q1                  |
| 3  | 3        | CAPACITOR, 100nF               | C4, C16, CZ             |
| 4  | 1        | CAPACITOR, 100pF               | C18                     |
| 5  | 3        | CAPACITOR, 1uF                 | C9, C7, C8              |
| 6  | 1        | CAPACITOR, 2.2uF               | C6                      |
| 7  | 1        | CAPACITOR, 220pF               | C10                     |
| 8  | 2        | CAP_ELECTROLIT, 100uF          | C11, C12                |
| 9  | 4        | CAP_ELECTROLIT, 220uF          | C13, C1, C3, C15        |
| 10 | 2        | DIODE, 1N4148                  | D4, D5                  |
| 11 | 2        | NPN, 2SC2240                   | Q3, Q4                  |
| 12 | 1        | NPN, 2SC4793                   | Q10                     |
| 13 | 2        | NPN, 2SC5200                   | Q14, Q12                |
| 14 | 1        | PNP_1, 2SA1381                 | Q8                      |
| 15 | 1        | PNP_1, 2SA1837                 | Q11                     |
| 16 | 2        | PNP_1, 2SA1943                 | Q15, Q13                |
| 17 | 2        | PNP_1, 2SA970                  | Q5, Q6                  |
| 18 | 1        | POTENTIOMETER, 1kΩ             | R14                     |
| 19 | 5        | RESISTOR, 100Ω 1%              | R15, R2, R3, R23, R24   |
| 20 | 1        | RESISTOR, 10kΩ 1%              | R27                     |
| 21 | 5        | RESISTOR, 10Ω 1%               | R25, R1, R9, R34, R29   |
| 22 | 1        | RESISTOR, 1kΩ 1%               | R21                     |
| 23 | 2        | RESISTOR, 1kΩ 1%               | R13, R26                |
| 24 | 2        | RESISTOR, 22kΩ 1%              | R6, R4                  |
| 25 | 1        | RESISTOR, 22Ω 1%               | R5                      |
| 26 | 2        | RESISTOR, 24kΩ 1%              | R22, R20                |
| 27 | 1        | RESISTOR, 3.3kΩ 1%             | R31                     |
| 28 | 1        | RESISTOR, 3.6kΩ 1%             | R8                      |
| 29 | 4        | RESISTOR, 300mΩ 10%            | R18, R16, R19, R17      |
| 30 | 1        | RESISTOR, 4.7kΩ 1%             | R30                     |
| 31 | 1        | RESISTOR, 4.7Ω 1%              | RZ                      |
| 32 | 1        | RESISTOR, 500kΩ 1%             | R12                     |
| 33 | 4        | SPADE_CON, SPADE_CON           | SPKR, GND, P_NEG, P_POS |
| 34 | 1        | Terminal_Block, Terminal_Block | IN                      |