









| Designator | Value | Symbol | Quantity | Comment |
|----------------|-------------------------|---|----------|------------------------------------|
| Y1 | 32.768KHZ | - | 1 | |
| Y0 | 8Mhz | - | 1 | |
| X6-X9 | nixie IN-3 | - | 4 | or similar, can be modern neon |
| X0-X5 | nixie IN-12B | - | 6 | |
| VR0 | LM7805 | - | 1 | or similar 5V 1A linear stabilizer |
| U3 | K155NA1/SN74141N | - | 1 | available on eBay |
| U2 | NE555P | - | 1 | |
| U1 | DS1307 | - | 1 | |
| U0 | ATmega8A-PU | - | 1 | |
| SW0-SW2 | 6mm switch | - | 3 | angular |
| R64-R69 | 15k |  | 6 | |
| R60-R63, R20 | 220k |  | 5 | |
| R42-R59 | 220 SMD 0805 | 220 | 18 | pre-soldered |
| R35-R41 | 100k |  | 7 | |
| R28-R34 | 470k |  | 7 | |
| R18, R21-R27 | 33k |  | 8 | |
| R4-R7, R19 | 470 |  | 5 | |
| R1-R3, R15-R17 | 1k |  | 6 | |
| R0, R8-R14 | 10k |  | 8 | |
| Q14-Q20 | MPSA92 | - | 7 | or other PNP -300V -0.5A |
| Q7-Q13 | MPSA42 | - | 7 | or other NPN 300V 0.5A |
| Q6 | BC547BG | - | 1 | |
| Q5 | IRF730 | - | 1 | or other N-channel mosfet 2A |
| Q4 | 2N2907A | - | 1 | |
| Q0-Q3 | 2N3904TF | - | 4 | |
| P0 | 1k potentiometer | - | 1 | |
| L0 | 100uH | - | 1 | |
| J0 | 2.1/5.5mm 9v DC | - | 1 | |
| D3-D8 | LED 5mm RGB c. cathode | - | 6 | recommended min 3000mcd |
| D1 | UF4007 | - | 1 | super-fast <75ns 400V 1A |
| D0, D2 | 1N4007 | - | 2 | Rectifier diode 400V 1A |
| C16 | 2.2uF 400v | - | 1 | |
| C15 | 47pF | 47 | 1 | |
| C14 | 470uF | - | 1 | |
| C13 | 2.2nF | 222 | 1 | |
| C7-C8 | 22pF | 22 | 2 | |
| C2, C4-C6, C12 | 100nF | 104 | 5 | |
| C0, C1, C3 | 100uF | - | 3 | |
| BT0 | coincell CR2032 holder | - | 1 | |
| B0 | Buzzer Piezo 5v | - | 1 | with generator |
| Connector | M20 Vertical Pin Header | - | 21 | |
| Socket | Nixie pins | - | 72 | available on eBay |

Q0 and R7 were removed from v1.2 and newer