

| Part number on Schematic   | Value                      | Amount | Package         | Link for ordering  | Comment   |
|--|----------------------------|--------|-----------------|--|---|
| <b>Resistors</b>   |                            |        |                 |  |   |
| R31, R32, R33, R34, R35, R36, R37, R38, R83, R83, R85, R86, R87, R88, R89, R90, R72, R76, R77, R78, R79, R80, R81, R82 | 1K                         | 16     | 0603 SMD        | <a href="#">1K Ohm 1/10W 1% 0603 SMD Chip Resistors (taydaelectronics.com)</a>                                       |   |
| R39, R40, R41, R42, R43, R44, R45, R46   | LED resistors ADC ~3.3K    | 8      | 0603 SMD        | <a href="#">10K Ohm 1/10W 1% 0603 SMD Chip Resistors (taydaelectronics.com)</a>                                      | Resistor for setting the brightness on the ADC LEDs Running on 5V. Recommended value for clear yellow LEDs is 3.3K. Best is to test with the LEDs you want to use and test for brightness with some resistor values with 5V before ordering the SMD resistors                         |
| R43, R50, R51, R52, R53, R54, R55, R56   | LED resistors DAC ~75K     | 8      | 0603 SMD        | <a href="#">8.7K Ohms 1/10W 1% 0603 SMD Chip Resistors (taydaelectronics.com)</a>                                    | Resistor for setting the brightness on the DAC LEDs. Running on 12V. Recommended value for clear green LEDs is 75K. Best is to test with the LEDs you want to use and test for brightness with some different resistor values with 12V before ordering th SMD resistors               |
| <b>Resistor Taps</b>   |                            |        |                 |  |   |
| R74  | 470R                       | 1      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R68  | 680R                       | 1      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R70, R15, R23, R29, R30, R60, R92, R94   | 1K                         | 9      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            | R29 is the Resistor which sets the brightness of the Clip LED running on 5V. Recommended value for clear red LED is 1K. Best is to test with the LEDs you want to use and test for brightness with some resistor values with the right supplyvoltage before ordering th SMD resistors |
| R63  | 1.8K                       | 1      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R5, R6, R7, R8, R9, R10, R11, R12, R16, R17, R18, R19, R20, R21, R22   | 5.1K                       | 15     | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R24, R26, R25, R27, R28, R47, R48, R57, R58, R65, R66, R67, R71, R75, R91, R93   | 10K                        | 16     | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R59, R62   | 20K                        | 2      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R73  | 22K                        | 1      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R2, R60, R61   | 47K                        | 3      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R15  | 91K                        | 1      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R1, R3, R95,   | 100K                       | 3      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R4,  | 200K                       | 1      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R14  | 220K                       | 1      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| R64  | 1M                         | 1      | THT 1/4W        | <a href="#">Save time Easy Ordering Page for 1/4W 1% Resistors (taydaelectronics.com)</a>                            |   |
| <b>Capacitors</b>  |                            |        |                 |  |   |
| C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C25   | 100n                       | 16     | Ceramic         | <a href="#">http://www.taydaelectronics.com/100nf-50v-multilayer-monolithic-ceramic-capacitor-2-54mm-vishay.html</a> |   |
| C21  | 22n                        | 1      | Film            | <a href="#">22nf 0.022uf 100V 5% Polyester Film Box Type Capacitor (taydaelectronics.com)</a>                        |   |
| C20  | 68n                        | 1      | Film            | <a href="#">68nf 0.068uf 100V 5% Polyester Film Box Type Capacitor (taydaelectronics.com)</a>                        |   |
| C1   | 100n                       | 1      | Film            | <a href="#">100nf 0.1uf 100V 5% Polyester Film Box Type Capacitor (taydaelectronics.com)</a>                         |   |
| C23  | 680n                       | 1      | Film            | <a href="#">680nf 0.68uf 100V 5% Polyester Film Box Type Capacitor (taydaelectronics.com)</a>                        |   |
| C7, C8, C19, C24   | 10u                        | 4      | Elko            | <a href="#">10uf 50V 100C Radial Electrolytic Capacitor 5x11mm (taydaelectronics.com)</a>                            |   |
| <b>Diodes</b>  |                            |        |                 |  |   |
| D1   | Clip LED                   | 1      | LED 3mm round   | <a href="#">LED 3mm Red Water Clear Ultra Bright (taydaelectronics.com)</a>  |   |
| D2, D3, D4, D5, D6, D7, D8, D9   | LEDs ADC                   | 8      | LED 3mm round   | <a href="#">LED 3mm Orange Water Clear (taydaelectronics.com)</a>  | Tayda has no yellow LEDs at the moment...   |
| D10, D11, D12, D13, D14, D15, D16, D17   | LEDs DAC                   | 8      | LED 3mm round   | <a href="#">LED 3mm Green Water Clear Super Bright (taydaelectronics.com)</a>  |   |
| D19  | BA143                      | 1      |                 | <a href="#">BA143</a>  |   |
| D18, D20   |                            | 2      |                 | <a href="#">1N4148 Switching Signal Diode (taydaelectronics.com)</a>   |   |
| <b>Variable Resistors</b>  |                            |        |                 |  |   |
| RV3  | 100K                       | 1      | Trim            | <a href="#">100K OHM TRIMMER POTENTIOMETER CERMET 25 TURNS 3296W (taydaelectronics.com)</a>                          |   |
| RV6, RV9, RV12   | 2K                         | 3      | Trim            | <a href="#">2K OHM CERMET TRIMMER POTENTIOMETER 25 TURNS 3296W (taydaelectronics.com)</a>                            |   |
| RV4, RV5, RV14   | 10K                        | 3      | Trim            | <a href="#">10K OHM TRIMMER POTENTIOMETER CERMET 25 TURNS 3296W (taydaelectronics.com)</a>                           |   |
| RV10   | 10K Knurled Shaft          | 1      | Pot             | <a href="#">10K OHM Linear Taper Potentiometer Spline Shaft PCB Mount 9mm (taydaelectronics.com)</a>                 | linear Taper  |
| RV2, RV11, RV8   | 100K Knurled Shaft         | 3      | Pot             | <a href="#">100K OHM Linear Taper Potentiometer Spline Shaft PCB Mount 9mm (taydaelectronics.com)</a>                | linear Taper  |
| RV1, RV7   | 100K Round Shaft           | 2      | Pot             | <a href="#">100K OHM Linear Taper Potentiometer Round Shaft PCB 9mm (taydaelectronics.com)</a>                       | linear Taper  |
| <b>Transistors</b>   |                            |        |                 |  |   |
| Q1, Q3, Q4   | BC547                      | 3      | TO-92           | <a href="#">BC547 Transistor NPN 45V 0.1A (taydaelectronics.com)</a>   |   |
| Q2   | BC557                      | 1      | TO-92           | <a href="#">BC557 Transistor PNP 45V 0.1A TO-92 BC557B-KC/F/W (taydaelectronics.com)</a>                             |   |
| <b>Jacks and Connectors</b>  |                            |        |                 |  |   |
| J1, J2, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25         | Thonkicomm type Mono Jack  | 24     |                 | <a href="#">Pi-3001F 3.5mm Mono Phone Jack (taydaelectronics.com)</a>  |   |
| J3   | Pin Header 2x5 Male Board  | 1      |                 | <a href="#">10 Pin Box Header Connector 2.54mm (taydaelectronics.com)</a>  |   |
| J30, J33   | Pin Header 2x5 Male P2.54  | 2      |                 |  |   |
| J27, J30   | Pin Header 1x14 Female     | 2      |                 | <a href="#">40 Pin 2.54 mm Single Row Female Pin Header (taydaelectronics.com)</a>                                   | Cut to lenght!  |
| J26, J31   | Pin Header 1x14 Male       | 2      |                 | <a href="#">40 Pin 2.54 mm Single Row Pin Header Strip (taydaelectronics.com)</a>                                    | Cut to lenght!  |
| J28  | Pin Header 1x31 Female     | 1      |                 | <a href="#">40 Pin 2.54 mm Single Row Female Pin Header (taydaelectronics.com)</a>                                   | Cut to lenght!  |
| J29  | Pin Header 1x31 Male       | 1      |                 | <a href="#">40 Pin 2.54 mm Single Row Pin Header Strip (taydaelectronics.com)</a>                                    | Cut to lenght!  |
| <b>Switches</b>  |                            |        |                 |  |   |
| S1, S2, S3, S4, S5, S6, S7, S8, S9   | DPDT latching switch 7x7mm | 9      |                 | <a href="#">PUSH BUTTON SWITCH DC 30V 0.1A DPDT 7x7mm (taydaelectronics.com)</a>                                     |   |
| <b>Integrated Circuits</b>   |                            |        |                 |  |   |
| U1   | MCP6002                    | 1      | DIP-8           |  |   |
| U2, U3, U4, U5   | TL074                      | 4      | DIP-14          | <a href="#">TL074 Quad Operational Amplifier 1-FFT PDIP-14 TL074CN (taydaelectronics.com)</a>                        |   |
| U8   | CD4069                     | 1      | DIP-14          | <a href="#">CD4069(BE) CD4069 4069 Hex Inverter IC (taydaelectronics.com)</a>  |   |
| U6, U7   | LM324                      | 2      | DIP-14          | <a href="#">LM324N LM324 324 Low Power Quad Op-Amp IC (taydaelectronics.com)</a>                                     |   |
| U9, U10  | CD4066                     | 2      | DIP-14          | <a href="#">CD4066 4066 IC CMOS QUAD BILATYRAL SWITCH (taydaelectronics.com)</a>                                     |   |
| U11  | L7805                      | 1      | TO-220-3        | <a href="#">LM7805 1.7805 7805 Voltage Regulator IC 5V 1.5A (taydaelectronics.com)</a>                               |   |
| U12  | TL431                      | 1      | TO-92           | <a href="#">TL431ACL TL431 PRECISION SHUNT REGULATOR (taydaelectronics.com)</a>                                      |   |
| IC1  | ADC0820CN                  | 1      | DIP-20          |  |   |
| IC2  | DAC083DL                   | 2      | DIP-20          |  |   |
| <b>IC- Sockets</b>   |                            |        |                 |  |   |
| E1   | IC Socket                  | 1      | DIP-8           | <a href="#">8 pin DIP IC Socket Adaptor Solder Type (taydaelectronics.com)</a>                                       |   |
| E2, E3, E4, E5, E6, E7, E8, E9, E10  | IC Socket                  | 9      | DIP-14          | <a href="#">14 pin DIP IC Socket Adaptor Solder Type (taydaelectronics.com)</a>                                      |   |
| EC1, EC2   | IC Socket                  | 2      | DIP-20          | <a href="#">20 pin DIP IC Socket Adaptor Solder Type (taydaelectronics.com)</a>                                      |   |
| <b>External Parts</b>  |                            |        |                 |  |   |
| K1, K2   | Alu Pot Knobs 22mm         | 2      | 6.35mm shaft    | <a href="#">Aluminum Knob with Delta Mark (taydaelectronics.com)</a>   |   |
| K1, K2, K3, K4   | Black Pot Knobs slim       | 4      | 4 knurled shaft | <a href="#">10 Pcs Black Plastic Potentiometer Rotary Control Knobs Caps for 6mm Dia 5H/Ve 1 e4av</a>                |   |
| K5, K6, C7, K8, K9, K10, K11, K12, K13   | Black Switch Caps          | 9      |                 | <a href="#">Push Button Switch Caps Black Color 6x9mm (taydaelectronics.com)</a>                                     | other colours than black available at Tayda   |
| W1, W2   | IDC Ribbonable 10 Pin      | 2      |                 | <a href="#">10 Conductor AWG 28 Flat Ribbon Cable 1FT (180cm) (taydaelectronics.com)</a>                             |   |
| J34, J35, J36, J37   | IDC Header Female 5x2 Pin  | 4      |                 | <a href="#">IDC Socket Connector 2.54mm 2*4 Pin (taydaelectronics.com)</a>   |   |