

| Comment       | Description                       | Designator      | Footprint                         | Quantity |
|---------------|-----------------------------------|-----------------|-----------------------------------|----------|
| SE PUSHBUTTON | SE PUSHBUTTON                     | B1, B2          | PB-6X6mm-Blue                     | 2        |
| 100nF         | CAPACITOR 0805 CERAMIC            | C1, C9          | 0805C-TBD                         | 2        |
| 10nF          | CAPACITOR 0805 CERAMIC            | C2, C7          | 0805C-TBD                         | 2        |
| 100uF-16V     | CAPACITOR POLARISED               | C3              | PANACAP-D-GENERIC                 | 1        |
| 10uF-16V      | CAPACITOR POLARISED               | C4              | PANACAP-D-GENERIC                 | 1        |
| 680uF-16V     | CAPACITOR POLARISED               | C5              | PANACAP-D-GENERIC                 | 1        |
| 220uF-16V     | CAPACITOR POLARISED               | C6              | PANACAP-D-GENERIC                 | 1        |
| 1uF           | CAPACITOR POLARISED               | C8              | PANACAP-D-GENERIC                 | 1        |
| 22pF          | CAPACITOR 0805 CERAMIC            | C10, C11        | 0805C-TBD                         | 2        |
| 100uH         | COIL                              | Coil 1          | COIL SMD 1206                     | 1        |
| 33uH          | COIL                              | Coil 2          | COIL SMD 1206                     | 1        |
| 10uH          | COIL                              | Coil 3          | COIL SMD 1206                     | 1        |
| LED Red       | LED                               | D1-D128         | LED Red 3mm TH V                  | 128      |
| 1N4007 SMD    | SMD Diod                          | D129-D132, D134 | 1N4007 SMD                        | 5        |
| 1N5822 SMD    | Schottky Rectifiers               | D133            | DO-214AB(SMC)                     | 1        |
| Red           | LED                               | D135            | LED SMD 1206                      | 1        |
| Header 24     | Header, 24-Pin                    | P1              | HDR1X24                           | 2        |
| Header 6      | Header, 6-Pin                     | P2              | HDR1X6                            | 1        |
| ISP           | Male Box Header                   | P3              | WR-BHD 2.54mm 5x2 Male Box Header | 1        |
| Power Jack    | Power Jack                        | Power Jack      | Power Jack                        | 1        |
| Res Pack1     | Isolated Resistor Network - Parts | R1              | SOIC16_N                          | 1        |
| 10K           | RES 0805                          | R2, R4, R5      | RES 0805                          | 3        |
| 220           | RES 0805                          | R3              | RES 0805                          | 1        |
| ATmega32-16AC | 8-Bit AVR Microcontroller         | U1              | 44A                               | 1        |
| ULN2803       | ULN2803 SMD                       | U2              | ULN2803 SMD                       | 1        |
| 74541         | OCTAL BUF AND LINE DRV 3SO        | U3, U4          | SO20W                             | 2        |
| NE555         | TIMER IC                          | U5              | SO8                               | 1        |
| LM2596S-ADJ   | SIMPLE SWITCHER Voltage Regulator | U6              | TS5B_N                            | 1        |
| L7805         | LINEAR REGULATOR 5.0V             | U7              | DPAK                              | 1        |
| potentiometer | potentiometer                     | VR              | potentiometer                     | 1        |
| 11.0592 MHz   | XTAL Crystal                      | Y1              | Crystal SMD                       | 1        |