

| Designator   | Quantity | Description  | Value    | Footprint                        | Manufacturer              | Manufacturer Part Number |
|--|----------|--|----------|----------------------------------|---------------------------|--------------------------|
| C1   | 1        | CAP 330nF 50V ±10%<br>1210 (3225 Metric)<br>Thickness 1.35mm<br>SMD  | 330nF    | CAPC1210(3225)155_L              | AVX Corporation           | 12105C334KAT2A           |
| C2   | 1        | Chip Capacitor, 10 nF,<br>+/- 10%, 50 V, -55 to<br>125 degC, 0603 (1608<br>Metric), RoHS, Tape<br>and Reel               | 10nF     | CAPC1608X90X35ML10<br>T15        | Murata                    | GRM188R71H103K<br>A01    |
| J1   | 1        | 3x8 female header  |          | 3x8 Female Header                |                           |                          |
| J2   | 1        | 3x8 male header  |          | 3x8 Male Header                  |                           |                          |
| J3   | 1        | Male Header, Pitch<br>2.54 mm, 1 x 2<br>Position, Height 11.7<br>mm, Tail Length 3.56<br>mm, 0 to 75 degC,<br>RoHS, Bulk |          | MOLX-22-27-2021_V                | Molex                     | AE-6410-2A               |
| LED1   | 1        | SMD mono-color<br>reverse mount<br>waterclear Chip LED,<br>WL-SMRW, Red  | 2V       | 1206 CYLINDRICAL-<br>Reverse Use | Wuerth Elektronik         | 156120RS75300            |
| R1_1, R1_2, R1_3,<br>R1_4, R1_5, R1_6,<br>R1_7, R1_8 | 8        | RES 470 OHM 0.1% 1/<br>8W 0805   | 470 ohm  | RESC2013X60X40NL20<br>T25        | Panasonic                 | ERA6AEB471V              |
| R2_1, R2_2, R2_3,<br>R2_4, R2_5, R2_6,<br>R2_7, R2_8 | 8        | Chip Resistor, 1 KOhm,<br>+/- 1%, 125 mW, -55<br>to 155 degC, 0805<br>(2012 Metric), RoHS,<br>Tape and Reel              | 1 kohm   | RESC2013X60X35ML10<br>T20        | Yageo                     | RC0805FR-071KL           |
| R3   | 1        | RES SMD 1.1K OHM<br>0.1% 1/4W 1206   | 1.1 kohm | RESC3116X65X40NL10<br>T20        | Yageo                     | RT1206BRD071K1L          |
| U1, U2, U3, U4                                       | 4        | Transistor Output<br>Optocouplers SO8 100-<br>200% 3.75KV 2CH<br>Optocoupler   |          | ZMDI-SOP-8_N                     | Lite-On Inc.              | LTV-207                  |
| U5   | 1        | IC REG LINEAR 5V<br>100MA TO92-3   | 5V       | Z03A                             | National<br>Semiconductor | LM78L05                  |