







| Comment | Description | Designator | Footprint | LibRef | Quantity |
|----------------------------------|---|--------------------|-------------------------|---------------------------------|----------|
| Cap | Capacitor | C1 | RAD-0.1 | CAP CER 0.1UF 50V X7R RADIAL | 1 |
| Cap Pol1 | Polarized Capacitor (Radial) | C2 | Capacitor 330nF | Cap Pol1 | 1 |
| POWER | Typical RED GaAs LED | D1 | LED_5MM | LED1 | 1 |
| API CONNECTION | Typical RED GaAs LED | D2 | LED_5MM | LED1 | 1 |
| 593 - GND | BATTERY CONTACT SNAP 9V PC PIN | J1 | FP-593-MFG | CMP-19636-000031-1 | 1 |
| 594 - 9V | BATTERY CONTACT SNAP 9V PC PIN | J2 | FP-594-MFG | CMP-19636-000029-1 | 1 |
| HC | Typical RED GaAs LED | L1, L128 | PCBComponent_1 | LED1 | 2 |
| HC1 | Typical RED GaAs LED | L2 | PCBComponent_1 | LED1 | 1 |
| HC2 | Typical RED GaAs LED | L3 | PCBComponent_1 | LED1 | 1 |
| HC3 | Typical RED GaAs LED | L4 | PCBComponent_1 | LED1 | 1 |
| WH | Typical RED GaAs LED | L5, L124 | PCBComponent_1 | LED1 | 2 |
| WH1 | Typical RED GaAs LED | L6 | PCBComponent_1 | LED1 | 1 |
| WH2 | Typical RED GaAs LED | L7 | PCBComponent_1 | LED1 | 1 |
| WH3 | Typical RED GaAs LED | L8 | PCBComponent_1 | LED1 | 1 |
| AS | Typical RED GaAs LED | L9, L120 | PCBComponent_1 | LED1 | 2 |
| AS1 | Typical RED GaAs LED | L10 | PCBComponent_1 | LED1 | 1 |
| BR | Typical RED GaAs LED | L11, L118 | PCBComponent_1 | LED1 | 2 |
| BR1 | Typical RED GaAs LED | L12, L119 | PCBComponent_1 | LED1 | 2 |
| BR2 | Typical RED GaAs LED | L13 | PCBComponent_1 | LED1 | 1 |
| AB | Typical RED GaAs LED | L14, L115 | PCBComponent_1 | LED1 | 2 |
| AB1 | Typical RED GaAs LED | L15, L116 | PCBComponent_1 | LED1 | 2 |
| AB2 | Typical RED GaAs LED | L16, L117 | PCBComponent_1 | LED1 | 2 |
| BT | Typical RED GaAs LED | L17, L112 | PCBComponent_1 | LED1 | 2 |
| BT1 | Typical RED GaAs LED | L18, L113 | PCBComponent_1 | LED1 | 2 |
| BT2 | Typical RED GaAs LED | L19, L114 | PCBComponent_1 | LED1 | 2 |
| OK | Typical RED GaAs LED | L20, L109 | PCBComponent_1 | LED1 | 2 |
| OK1 | Typical RED GaAs LED | L21, L110 | PCBComponent_1 | LED1 | 2 |
| OK2 | Typical RED GaAs LED | L22, L111 | PCBComponent_1 | LED1 | 2 |
| OK3 | Typical RED GaAs LED | L23 | PCBComponent_1 | LED1 | 1 |
| CS | Typical RED GaAs LED | L24, L105 | PCBComponent_1 | LED1 | 2 |
| CS1 | Typical RED GaAs LED | L25, L106 | PCBComponent_1 | LED1 | 2 |
| CS2 | Typical RED GaAs LED | L26, L107 | PCBComponent_1 | LED1 | 2 |
| PC | Typical RED GaAs LED | L27, L102 | PCBComponent_1 | LED1 | 2 |
| PC1 | Typical RED GaAs LED | L28, L103 | PCBComponent_1 | LED1 | 2 |
| PC2 | Typical RED GaAs LED | L29, L104 | PCBComponent_1 | LED1 | 2 |
| LB | Typical RED GaAs LED | L30, L99 | PCBComponent_1 | LED1 | 2 |
| LB1 | Typical RED GaAs LED | L31, L100 | PCBComponent_1 | LED1 | 2 |
| LB2 | Typical RED GaAs LED | L32, L101 | PCBComponent_1 | LED1 | 2 |
| MM | Typical RED GaAs LED | L33, L96 | PCBComponent_1 | LED1 | 2 |
| MM1 | Typical RED GaAs LED | L34, L97 | PCBComponent_1 | LED1 | 2 |
| MM2 | Typical RED GaAs LED | L35, L98 | PCBComponent_1 | LED1 | 2 |
| EX | Typical RED GaAs LED | L36, L93 | PCBComponent_1 | LED1 | 2 |
| EX1 | Typical RED GaAs LED | L37, L94 | PCBComponent_1 | LED1 | 2 |
| UN | Typical RED GaAs LED | L38, L39, L90, L91 | PCBComponent_1 | LED1 | 4 |
| UN1 | Typical RED GaAs LED | L40, L92 | PCBComponent_1 | LED1 | 2 |
| UN2 | Typical RED GaAs LED | L41 | PCBComponent_1 | LED1 | 1 |
| UN3 | Typical RED GaAs LED | L42 | PCBComponent_1 | LED1 | 1 |
| DN | Typical RED GaAs LED | L43, L86 | PCBComponent_1 | LED1 | 2 |
| DN1 | Typical RED GaAs LED | L44, L87 | PCBComponent_1 | LED1 | 2 |
| DN2 | Typical RED GaAs LED | L45, L88 | PCBComponent_1 | LED1 | 2 |
| SC | Typical RED GaAs LED | L46, L83 | PCBComponent_1 | LED1 | 2 |
| SC1 | Typical RED GaAs LED | L47, L84 | PCBComponent_1 | LED1 | 2 |
| EG | Typical RED GaAs LED | L48, L81 | PCBComponent_1 | LED1 | 2 |
| EG1 | Typical RED GaAs LED | L49, L82 | PCBComponent_1 | LED1 | 2 |
| GW | Typical RED GaAs LED | L50, L79 | PCBComponent_1 | LED1 | 2 |
| GW1 | Typical RED GaAs LED | L51, L80 | PCBComponent_1 | LED1 | 2 |
| GW2 | Typical RED GaAs LED | L52 | PCBComponent_1 | LED1 | 1 |
| RH | Typical RED GaAs LED | L53, L76 | PCBComponent_1 | LED1 | 2 |
| RH1 | Typical RED GaAs LED | L54, L77 | PCBComponent_1 | LED1 | 2 |
| RH2 | Typical RED GaAs LED | L55, L78 | PCBComponent_1 | LED1 | 2 |
| PK | Typical RED GaAs LED | L56, L73 | PCBComponent_1 | LED1 | 2 |
| PK1 | Typical RED GaAs LED | L57, L74 | PCBComponent_1 | LED1 | 2 |
| AJ | Typical RED GaAs LED | L58, L71 | PCBComponent_1 | LED1 | 2 |
| AJ1 | Typical RED GaAs LED | L59, L72 | PCBComponent_1 | LED1 | 2 |
| AJ2 | Typical RED GaAs LED | L60 | PCBComponent_1 | LED1 | 1 |
| AJ3 | Typical RED GaAs LED | L61 | PCBComponent_1 | LED1 | 1 |
| WB | Typical RED GaAs LED | L62, L67 | PCBComponent_1 | LED1 | 2 |
| WB1 | Typical RED GaAs LED | L63, L68 | PCBComponent_1 | LED1 | 2 |
| DCO | Typical RED GaAs LED | L64, L65 | PCBComponent_1 | LED1 | 2 |
| DCO1 | Typical RED GaAs LED | L66 | PCBComponent_1 | LED1 | 1 |
| WB2 | Typical RED GaAs LED | L69 | PCBComponent_1 | LED1 | 1 |
| WB3 | Typical RED GaAs LED | L70 | PCBComponent_1 | LED1 | 1 |
| PK2 | Typical RED GaAs LED | L75 | PCBComponent_1 | LED1 | 1 |
| SC2 | Typical RED GaAs LED | L85 | PCBComponent_1 | LED1 | 1 |
| DN3 | Typical RED GaAs LED | L89 | PCBComponent_1 | LED1 | 1 |
| EX2 | Typical RED GaAs LED | L95 | PCBComponent_1 | LED1 | 1 |
| CS3 | Typical RED GaAs LED | L108 | PCBComponent_1 | LED1 | 1 |
| AS-WH1 | Typical RED GaAs LED | L121 | PCBComponent_1 | LED1 | 1 |
| AS-WH2 | Typical RED GaAs LED | L122 | PCBComponent_1 | LED1 | 1 |
| AS-WH3 | Typical RED GaAs LED | L123 | PCBComponent_1 | LED1 | 1 |
| AS-HC1 | Typical RED GaAs LED | L125 | PCBComponent_1 | LED1 | 1 |
| AS-HC2 | Typical RED GaAs LED | L126 | PCBComponent_1 | LED1 | 1 |
| AS-HC3 | Typical RED GaAs LED | L127 | PCBComponent_1 | LED1 | 1 |
| HT16K33 LEFT | Header, 14-Pin | P1 | HDR1X14 | Header 14 | 1 |
| HT16K33 RIGHT | Header, 14-Pin | P2 | HDR1X14 | Header 14 | 1 |
| NANO Vin side, USB side pin 1 | Header, 15-Pin | P3 | HDR1X15 | Header 15 | 1 |
| NANO Tx1 side, USB side pin 1 | Header, 15-Pin | P4 | HDR1X15 | Header 15 | 1 |
| UART - GND LEFT | Header, 6-Pin, Right Angle | P5 | HDR1X6H | Header 6H | 1 |
| Extra Power | Header, 3-Pin | P6 | HDR1X3 | Header 3 | 1 |
| I2C | Header, 2-Pin, Right Angle | P7 | RAD-0.1 | Header 2H | 1 |
| Res1 | Resistor | R1, R2 | AXIAL-0.3 | Res1 | 2 |
| 1101M2S3COE2 | SWITCH SLIDE SPDT 6A 120V Series 3 Terminal | SW1, SW2 | FP-1101M2S3COE2- MFG | CMP-10038-000019-1 | 2 |
| LM340T-5.0 | Positive Regulators, 3- pin TO-220 | U1 | NDK0003A | CMP-0062-02468-3 | 1 |