



| Comment       | Description                                                                                                                                                                     | Designator                 | Footprint    | LibRef        | Quantity |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|---------------|----------|
| Cap           | Capacitor                                                                                                                                                                       | C1, C2, C3, C4             | CAPC3216L    | Cap           | 4        |
| L-53SURC-E    | Typical RED GaAs LED                                                                                                                                                            | D1                         | LED-1        | LED1          | 1        |
| 5v1           | Zener Diode                                                                                                                                                                     | D2                         | DSO-F2/D6.1A | D Zener       | 1        |
| Header 4      | Header, 4-Pin                                                                                                                                                                   | P1                         | HDR1X4       | Header 4      | 1        |
| 2n2222        | NPN Bipolar Transistor                                                                                                                                                          | Q1                         | TO-52        | NPN           | 1        |
| AP9561GH      | P-Channel Enhancement<br>Mode Vertical DMOS FE                                                                                                                                  | Q2                         | D2PAK_M      | ZVP4105A      | 1        |
| Res2          | Resistor                                                                                                                                                                        | R1, R2, R3, R4, R5, R6, R7 | RESC3216M    | Res2          | 7        |
| EDS102SZ      | DIP Switch, 2 Position,<br>SPST                                                                                                                                                 | S1                         | DIP-4        | SW DIP-2      | 1        |
| PIC12F683-I/P | Flash-Based 8-Bit CMOS<br>Microcontroller with<br>nanoWatt Technology, 2k<br>(x14-Bit words) Program<br>Memory, 384 Bytes Data<br>Memory, 8-Pin PDIP,<br>Industrial Temperature | U1                         | PDIP300-P8   | PIC12F683-I/P | 1        |
| 78L05MBR      | Voltage Regulator                                                                                                                                                               | VR1                        | SOT 89       | Volt Reg      | 1        |