

| Transistor Amp and Waveform Exploration Board |                                    |                     |                       |            |
|---|------------------------------------|---------------------|-----------------------|------------|
| Number Required                               | Board Number                       | Digikey Part Number | Part description      | Price Each |
| 2   | U1, U2                             | 296-1395-5-ND       | LM358 Op Amp          |            |
| 2   | U1, U2                             | ED3308-ND           | 8 Pin DIP Socket      |            |
| 1   | Q1                                 | 2N3904RLRAOSCT-ND   | 2N3904 Transistor     |            |
| 2   | D1, D2                             | 67-1105-ND          | Red LED               |            |
| 1   | Lamp 327                           | CM327-nd            | Lamp                  |            |
|   |                                    |                     |                       |            |
| 2   | C3, C5                             | 399-2127-ND         | .1uF Cap              |            |
| 2   | C1, C2                             | 399-2004-ND         | .01uF Cap             |            |
| 2   | C4, C6                             | P5174-ND            | 1uF Electrolytic      |            |
|   |                                    |                     |                       |            |
| 3   | R1, R2, R3                         | P330BACT-ND         | 330 ohm               |            |
| 3   | R10a, R9a, R11a                    | P100BACT-ND         | 100 ohm               |            |
| 1   | R15* listed as R5 with U2 on board | P2.2KBACT-ND        | 2.2K ohm              |            |
| 1   | R6                                 | P8.2KBACT-ND        | 8.2K ohm              |            |
| 1   | R7                                 | P10KBACT-ND         | 10K ohm               |            |
| 2   | R4, R5                             | P15KBACT-ND         | 15K ohm               |            |
| 2   | R12, R13                           | 3296W-201-ND        | 200 ohm pot           |            |
| 2   | R11, R9                            | 3296W-502-ND        | 5K ohm pot            |            |
| 1   | R8                                 | 3296W-103-ND        | 10K ohm pot           |            |
| 1   | R10                                | 3296W-203-ND        | 20K ohm pot           |            |
|   |                                    |                     |                       |            |
| 2   |                                    | EG1903-ND           | Power Switch          |            |
| 2   |                                    | 968K-ND             | Vertical Battery Clip |            |
| 1   |                                    | 929834-02-36-ND     | Conn Header .1 inch   |            |
| 1   |                                    | A26242-ND           | Shunt with Handle     |            |