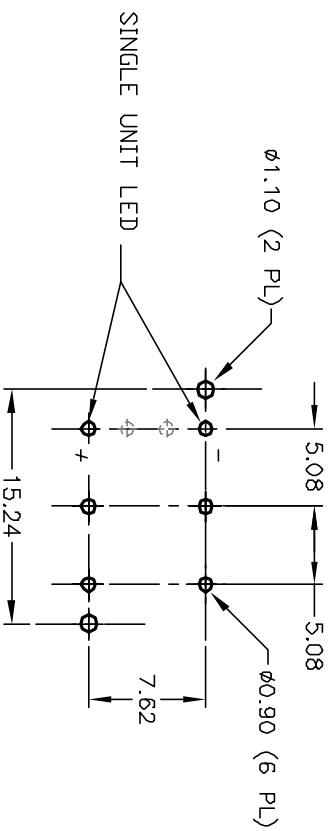
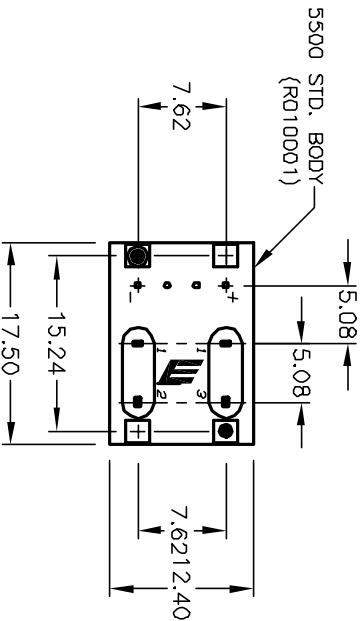
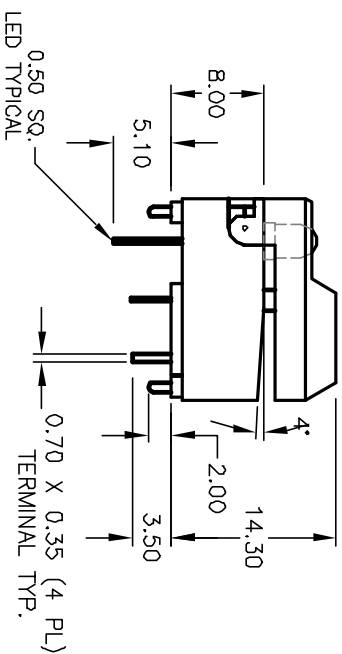
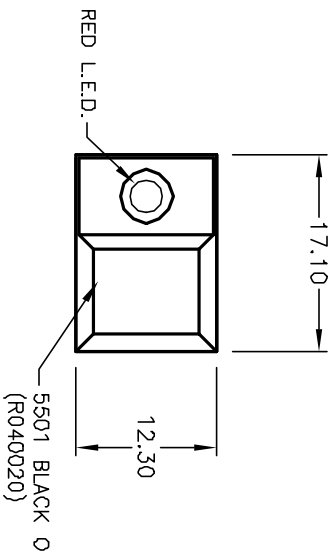
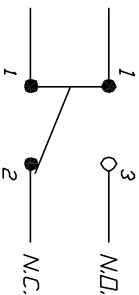




RECOMMENDED P.C.B. LAYOUT

| LED SPECIFICATION    | SYMBOL          | RED L.E.D |      | UNITS |
|----------------------|-----------------|-----------|------|-------|
|                      |                 | MAX.      | MIN. |       |
| POWER DISSIPATION    | P <sub>D</sub>  | 80        | --   | mW    |
| FORWARD VOLTAGE      | V <sub>F</sub>  | 2.8       | 1.9  | V     |
| REVERSE VOLTAGE      | V <sub>R</sub>  | 5         |      | V     |
| EMISSION WAVELENGTH  | λ <sub>P</sub>  |           | 695  | nm    |
| AVE. FORWARD CURRENT | I <sub>AF</sub> | 30        | --   | mA    |
| LUMINOUS INTENSITY   | I <sub>v</sub>  |           | 0.7  | mcđ   |



CIRCUIT: SPDT  
CONTACT CONFIGURATION

- NOTES:
1. ALL DIMENSIONS IN MM
  2. GENERAL TOLERANCE: X.X=±0.4  
X.XX=±0.25
  3. TERM. NO. FOR REF. ONLY
  4. RATING: 12mA @24V
  5. FIXED CONTACT/MOVING CONTACT:  
COPPER ALLOY W/GOLD PLATE
  6. CONTACT BOUNCE: <5m SEC.
  7. CONTACT RESISTANCE: <50milli-ohms
  8. TRAVEL: 2.5±0.2mm

**E-SWITCH®**

|                                                                                                              |         |                     |         |      |
|--------------------------------------------------------------------------------------------------------------|---------|---------------------|---------|------|
| B                                                                                                            | 12151   | REVISED AND REDRAWN | 5/14/02 | CJB  |
| REV.                                                                                                         | ECN No. | DESCRIPTION         | DATE    | CHKD |
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|                   |         |     |         |     |
|-------------------|---------|-----|---------|-----|
| TITLE             |         |     |         |     |
| 5501-M-1-1 (BULK) |         |     |         |     |
| SCALE             | DATE    | DR  | DWG     | REV |
| 1.5:1             | 5/14/02 | CJB | XR0180P | B   |