

| PART NUMBER   | LED COLOR (TINTED, NON-DIFFUSED) |            |
|---------------|----------------------------------|------------|
|               | POSITION 1                       | POSITION 2 |
| 552-2211-100F | RED                              | RED        |
| 552-2212-100F | RED                              | GREEN      |
| 552-2213-100F | RED                              | YELLOW     |
| 552-2221-100F | GREEN                            | RED        |
| 552-2222-100F | GREEN                            | GREEN      |
| 552-2223-100F | GREEN                            | YELLOW     |
| 552-2231-100F | YELLOW                           | RED        |
| 552-2232-100F | YELLOW                           | GREEN      |
| 552-2233-100F | YELLOW                           | YELLOW     |

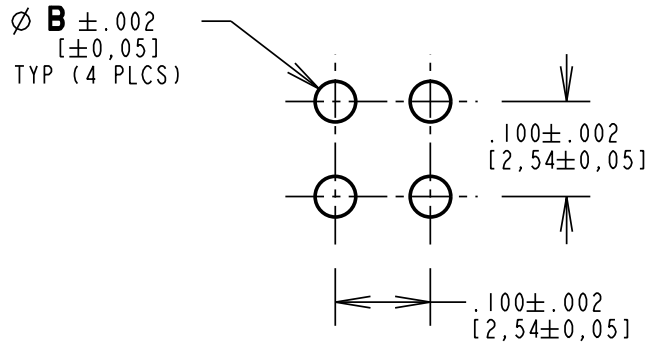
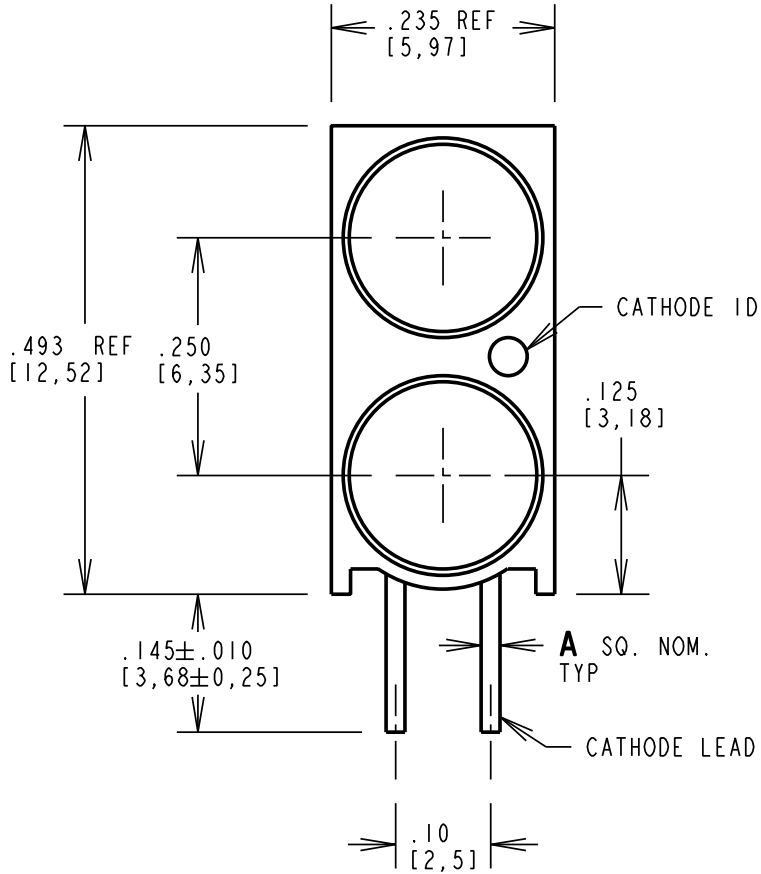
| LED COLOR | DIMENSION |      |
|-----------|-----------|------|
|           | A         | B    |
| RED       | .018      | .040 |
| GREEN     | .018      | .043 |
| YELLOW    | .020      | .043 |

| OPERATING CHARACTERISTICS AT 25°C AMBIENT |           |     |     |     |       |                        |
|-------------------------------------------|-----------|-----|-----|-----|-------|------------------------|
| CHARACTERISTICS                           | LED COLOR | MIN | TYP | MAX | UNITS | TEST CONDITIONS        |
| LUMINOUS INTENSITY                        | RED       | 8.7 | 29  |     | mcd   | I <sub>F</sub> = 10 mA |
|                                           | GREEN     | 32  | 50  |     |       |                        |
|                                           | YELLOW    | 10  |     | 50  |       |                        |
| FORWARD VOLTAGE                           | RED       |     | 2.0 | 2.8 | V     | I <sub>F</sub> = 20 mA |
|                                           | GREEN     |     | 2.1 | 2.8 |       |                        |
|                                           | YELLOW    |     | 2.1 | 2.8 |       |                        |
| REVERSE CURRENT                           | RED       |     | 100 |     | µA    | V <sub>R</sub> = 5 V   |
|                                           | GREEN     |     | 100 |     |       |                        |
|                                           | YELLOW    |     | 100 |     |       |                        |
| PEAK WAVELENGTH                           | RED       |     | 635 |     | nm    |                        |
|                                           | GREEN     |     | 565 |     |       |                        |
|                                           | YELLOW    |     | 585 |     |       |                        |
| VIEWING ANGLE                             | ALL       |     | 45  |     | DEG   |                        |

| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT                  | UNITS | RED         | GREEN | YELLOW |
|-----------------------------------------------------------|-------|-------------|-------|--------|
| POWER DISSIPATION                                         | mW    | 100         | 100   | 60     |
| FORWARD DC CURRENT                                        | mA    | 30          | 30    | 20     |
| LINEAR DERATION FROM 50°C                                 | mA/°C | 0.4         | 0.4   | 0.25   |
| PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH) | mA    | 120         | 120   | 80     |
| OPERATING TEMPERATURE                                     | °C    | -55 TO +100 |       |        |
| STORAGE TEMPERATURE                                       | °C    | -55 TO +100 |       |        |
| LEAD SOLDERING TEMPERATURE, 5 SEC, 1/16" FROM BODY        | °C    | 260         |       |        |

NOTES:

- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- DIALIGHT PART NUMBERS: 552-22XX-100F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

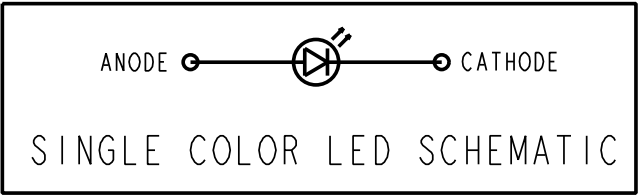
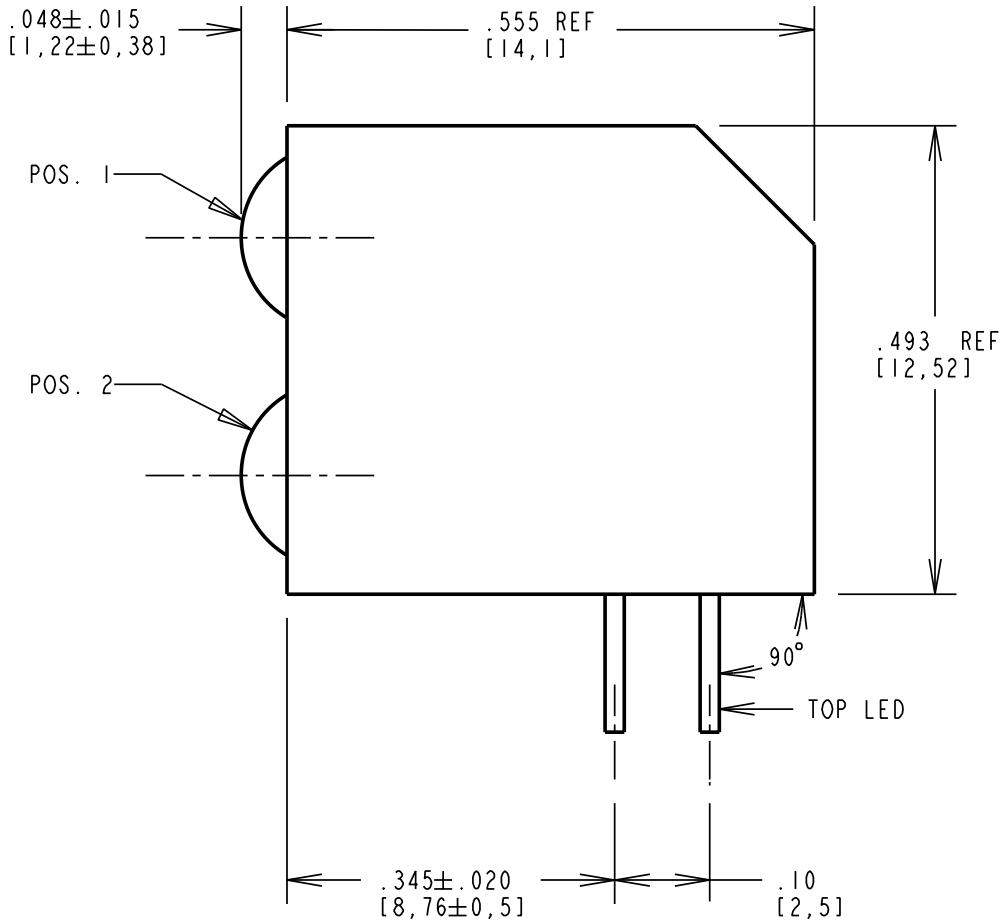


RECOMMENDED PC BOARD HOLE PATTERN

**RoHS Compliant 552-22XX-100F**  
**Thru-hole Bi-level CBI**

Part Numbers with the "F" suffix ending are RoHS Compliant. For example: 552-2222-100F  
The bag packaging is marked with "RoHS Compliant" label or equivalent markings. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

| REV | ECN NO | REVISIONS   | DRN | CKD | APP | DATE |
|-----|--------|-------------|-----|-----|-----|------|
| A   | —      | NEW RELEASE | KLJ |     |     |      |



**ATTENTION:**  
**OBSERVE PRECAUTIONS FOR**  
**HANDLING ELECTROSTATIC**  
**SENSITIVE DEVICES**

|                                                                                                                                                                                                                               |                                                   |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------|
| THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT. |                                                   |                                              |
| SCALE: DRAWING SCALE<br>ALL DIM'S IN: INCHES (MM)                                                                                                                                                                             | DRAWING NUMBER<br>C-17579                         | REV<br>A                                     |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED<br>FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.01<br>DECIMALS (.XXX): ±.005<br>DECIMALS (.XXXX): ±.0005<br>ANGLES: ±1°                                                                    | TITLE 5mm BACKLIGHTING BI-LEVEL<br>RoHS COMPLIANT |                                              |
| FINISH:                                                                                                                                                                                                                       | MATERIAL                                          |                                              |
| FSCM 83330                                                                                                                                                                                                                    | Dialight<br>A Division of Dial Corporation        | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |
| SHEET 1 OF 1                                                                                                                                                                                                                  |                                                   | FAMILY TABLE:                                |