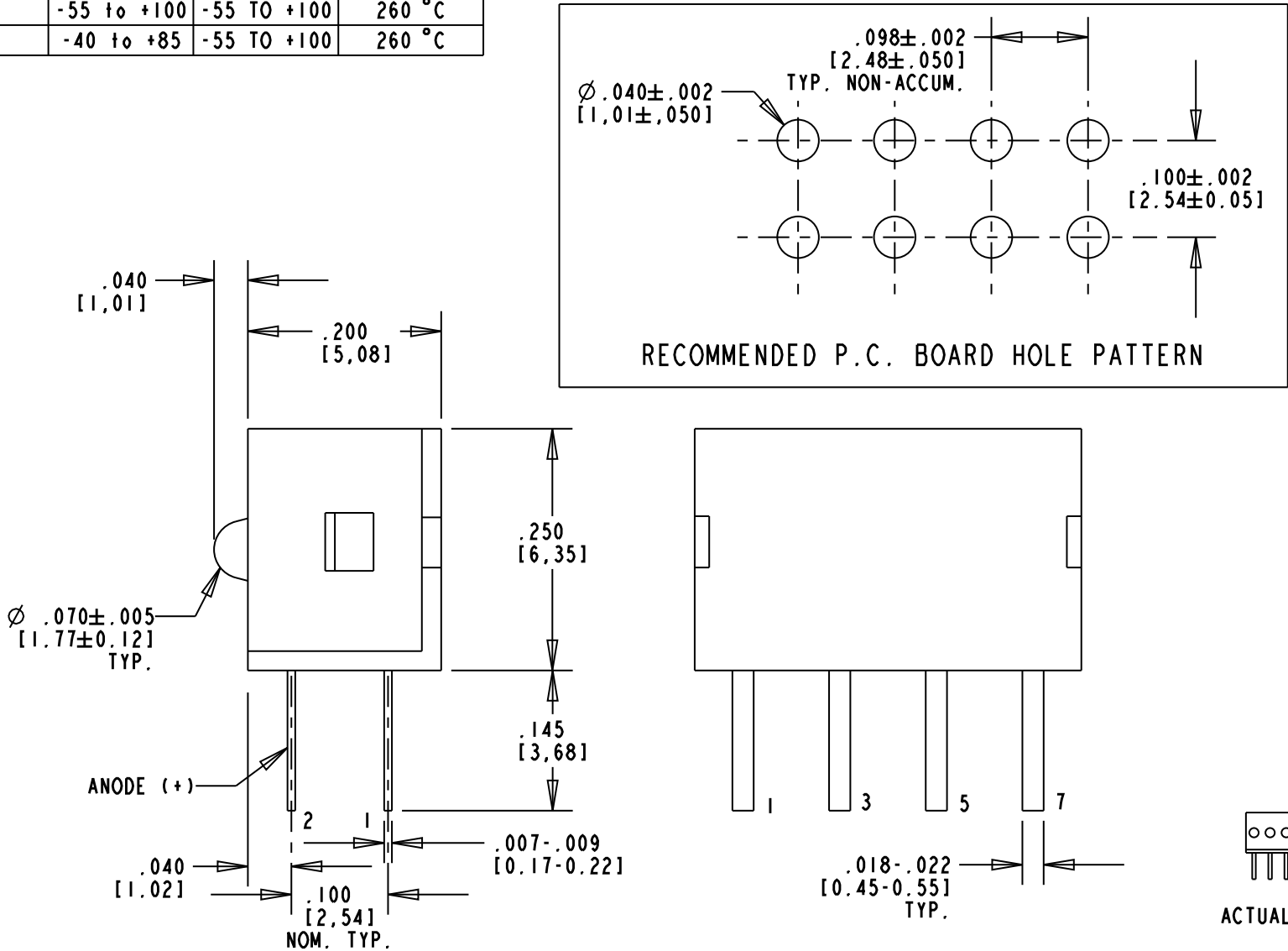
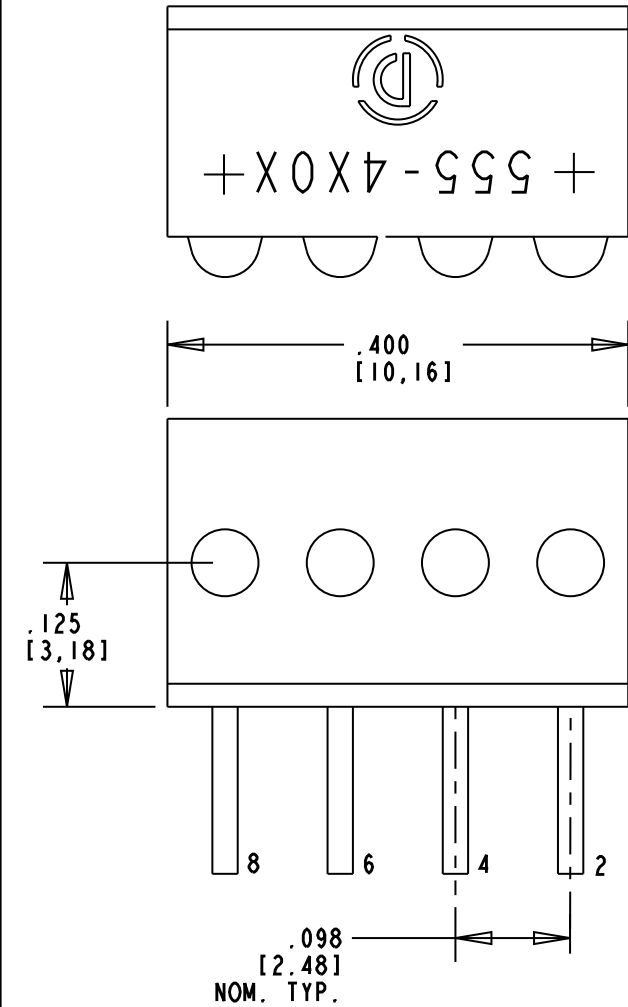


| DIALIGHT<br>PART NUMBER | LED & LENS COLOR                           | TEST<br>CONDITIONS    | OPERATING CHARACTERISTICS AT 25°C AMBIENT |     |                        |     |                         |      |                                |                            |                           |
|-------------------------|--------------------------------------------|-----------------------|-------------------------------------------|-----|------------------------|-----|-------------------------|------|--------------------------------|----------------------------|---------------------------|
|                         |                                            |                       | LUMINOUS<br>INTENSITY<br>(mcd)            |     | FORWARD VOLTAGE<br>(V) |     | FORWARD CURRENT<br>(mA) |      | DOMINANT<br>WAVELENGTH<br>(nm) | PEAK<br>WAVELENGTH<br>(nm) | VIEWING<br>ANGLE<br>(DEG) |
|                         |                                            |                       | MIN                                       | TYP | TYP                    | MAX | MIN                     | MAX  | TYP                            | TYP                        | TYP                       |
| 555-4001F               | RED, TINTED, DIFFUSED                      | I <sub>F</sub> = 10mA | 0.4                                       | 0.6 | 1.6                    | 2.0 | —                       | —    | 640                            | 655                        | 35                        |
| 555-4003F               | RED, TINTED, DIFFUSED, INT RES, 5V         | V <sub>F</sub> = 5V   | 1.0                                       | 2.5 | —                      | —   | 3.7                     | 8.70 | 640                            | 655                        | 35                        |
| 555-4007F               | RED, TINTED, DIFFUSED, INT RES, 5V         | V <sub>F</sub> = 5V   | 0.4                                       | 0.6 | —                      | —   | 2.2                     | 4.3  | 640                            | 655                        | 35                        |
| 555-4008F               | RED, TINTED, DIFFUSED, INT RES, 24V        | V <sub>F</sub> = 24V  | 0.4                                       | 0.6 | —                      | —   | 2.3                     | 4.1  | 640                            | 655                        | 35                        |
| 555-4009F               | RED, TINTED, DIFFUSED, INT RES, 5V         | V <sub>F</sub> = 5V   | 0.4                                       | 0.6 | —                      | —   | —                       | 2.6  | 640                            | 655                        | 35                        |
| 555-4301F               | HI. PERF. GREEN, TINTED, DIFFUSED          | I <sub>F</sub> = 10mA | 6.3                                       | 25  | 2.1                    | 2.7 | —                       | —    | 569                            | 565                        | 35                        |
| 555-4303F               | HI. PERF. GREEN, TINTED, DIFF, INT RES, 5V | V <sub>F</sub> = 5V   | 1.0                                       | 2.0 | —                      | —   | 3.3                     | 13.0 | 569                            | 565                        | 35                        |
| 555-4401F               | YELLOW, TINTED, DIFFUSED                   | I <sub>F</sub> = 10mA | 16                                        | 50  | 2.0                    | 2.4 | —                       | —    | 585                            | 583                        | 35                        |
| 555-4403F               | YELLOW, TINTED, DIFFUSED, INT RES, 5V      | V <sub>F</sub> = 5V   | 1.6                                       | 5.0 | —                      | —   | 3.5                     | 5.3  | 585                            | 583                        | 35                        |

| LED COLOR           | ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT |                          |                                               |                                  |                                |                                         |
|---------------------|------------------------------------------|--------------------------|-----------------------------------------------|----------------------------------|--------------------------------|-----------------------------------------|
|                     | DC<br>FORWARD<br>VOLTAGE                 | DC<br>FORWARD<br>CURRENT | REVERSE<br>VOLTAGE<br>(I <sub>R</sub> =100mA) | OPERATING<br>TEMPERATURE<br>(°C) | STORAGE<br>TEMPERATURE<br>(°C) | SOLDERING<br>TEMPERATURE<br>(FOR 5 SEC) |
| RED                 | —                                        | 50 mA                    | 5 V                                           | -55 to +100                      | -55 TO +100                    | 260 °C                                  |
| RED, INT RES, 5V    | 6 V                                      | —                        | 5 V                                           | -40 to +85                       | -55 TO +100                    | 260 °C                                  |
| RED, INT RES, 24V   | 24 V                                     | —                        | 5 V                                           | -40 to +85                       | -55 TO +100                    | 260 °C                                  |
| GREEN               | —                                        | 30 mA                    | 5 V                                           | -40 to +100                      | -55 TO +100                    | 260 °C                                  |
| GREEN, INT RES, 5V  | 6 V                                      | —                        | 5 V                                           | -20 to +85                       | -55 TO +100                    | 260 °C                                  |
| YELLOW              | —                                        | 20 mA                    | 5 V                                           | -55 to +100                      | -55 TO +100                    | 260 °C                                  |
| YELLOW, INT RES, 5V | 6 V                                      | —                        | 5 V                                           | -40 to +85                       | -55 TO +100                    | 260 °C                                  |



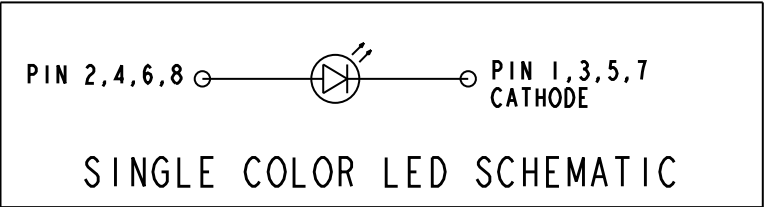
| REV | ECN NO | REVISIONS   | DRN | CKD | APP | DATE    |
|-----|--------|-------------|-----|-----|-----|---------|
| A   | —      | NEW RELEASE | AJF | KLJ | NO  | 7-30-09 |

## RoHS Compliant 555-4X0XF

Part Numbers with the "F" suffix ending are RoHS Compliant.  
Example: 555-4003F  
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.

### NOTES:

- PIN NUMBERS FOR REFERENCE ONLY. DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 555-4X0XF.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- LED LEADS - PURE Sn PLATING OVER OLIN 194 COPPER ALLOY BASE METAL.



**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-17763                         | REV<br>A                                     |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED<br>FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.02<br>DECIMALS (.XXX): ±.010                                                                                                               | TITLE 2mm QUAD CBI, RIGHT ANGLE<br>RoHS COMPLIANT |                                              |
| ANGLES: ±1°<br>FINISH:                                                                                                                                                                                                        | MATERIAL                                          |                                              |
| FSCM 83330                                                                                                                                                                                                                    | Dialight                                          | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |
| SHEET 1 OF 1                                                                                                                                                                                                                  |                                                   | FAMILY TABLE:                                |