

| OPERATING CHARACTERISTICS AT 25° C AMBIENT |                                                    |      |                                                         |       |      |                            |                                |                               |                                |                                                                               |
|--------------------------------------------|----------------------------------------------------|------|---------------------------------------------------------|-------|------|----------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------------------------------------------------------|
| LUMINOUS<br>COLOR                          | FORWARD<br>VOLTAGE (V)<br>@ I <sub>F</sub> = 20 mA |      | LUMINOUS<br>INTENSITY (mcd)<br>@ I <sub>F</sub> = 20 mA |       |      | PEAK<br>WAVELENGTH<br>(nm) | DOMINANT<br>WAVELENGTH<br>(nm) | VIEWING<br>ANGLE<br>(DEGREES) | LUMINOUS<br>EFFICACY<br>(lm/w) | LUMINOUS INTENSITY/<br>TOTAL FLUX<br>I <sub>v</sub> (mcd)/Φ <sub>v</sub> (lm) |
|                                            | TYP.                                               | MAX. | MIN.                                                    | TYP.  | MAX. | TYP.                       | TYP.                           | TYP.                          | TYP.                           | TYP.                                                                          |
| BLUE                                       | 3.9                                                | 4.3  | 45.00                                                   | 56.00 |      | 468                        | 470                            | 120                           | 75                             | 0.45                                                                          |

**Dialight** 1501 ROUTE 34 SOUTH  
FARMINGDALE, N.J. 07727

CATALOG P/N 597-3604-307F

LED P/N

DATE CODE/LOT #

INTENSITY BIN/COLOR CODE

QTY/REEL

COUNTRY OF ORIGIN

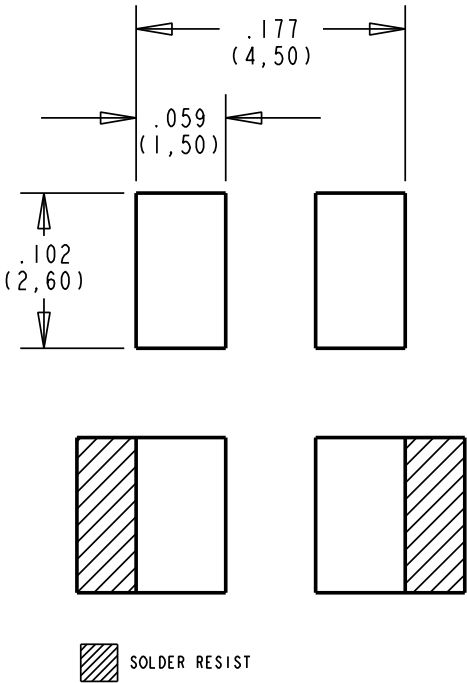
[illegible]

Diagram illustrating the TAPE & REEL CONFIGURATION for a cathode ray tube. The diagram shows a cross-section of a tape with five sprocket holes. Dimensions are given in inches and millimeters.

**Dimensions:**

- Top sprocket hole diameter:  $\phi .059$  (1.5)
- Top sprocket hole pitch: .157 (4.0)
- Top sprocket hole offset: .079 (2.0)
- Top sprocket hole diameter: .069 (1.75)
- Top sprocket hole pitch: .138 (3.5)
- Top sprocket hole offset: .315 (8.0)
- Top sprocket hole diameter: .217 (5.5)

**Labels:**

- POLARITY
- REEL SPROCKET HOLES
- CATHODE IDENTIFICATION
- NOTCH TOWARDS THESE HOLES
- TAPE & REEL CONFIGURATION
- USER FEED DIRECTION

Part Numbers with the "F" suffix ending are RoHS Compliant.  
Example: 597-3604-307F  
Packaging is marked with "RoHS Compliant" label or equivalent markings.  
Parts can be reflow soldered per RoHS reflow profile, wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 10-20 sec.

1. DIALIGHT PART NO. 597-3604-307F FULL REEL AND 597-3604-302F 20 PCS SAMPLE STRIP.  
2. DIE: InGaN BLUE  
3. SOLDER ADHERANCE: EACH PAD PER MIL-STD-202E, METHOD 208C. TERMINAL FINISH:  
PURE TIN (Sn) OVER COPPER ALLOY (Cu). PRODUCT WITH "F" SUFFIX IS RoHS COMPLIANT.  
4. TAPE AND REEL AS PER EIA STANDARD 481-1, WITH CATHODE TOWARD SPROCKET.  
5. PACKAGE ON 180 mm DIA REEL, 8 mm TAPE, 2000/REEL. PACKAGING TO INCLUDE:  
DIALIGHT LABEL (SEE FIGURE 1) WITH CATALOG P/N, LED P/N OPTIONAL, DATE CODE/LOT NO.,  
LUMINOUS INTENSITY RANK AND COLOR BIN CLASSIFICATION, QTY / REEL, AND COUNTRY OF ORIGIN.  
LABEL BOTH REEL AND SEALED ALUMINUM VAPOR BARRIER BAG WITH DESICCANT INSIDE.  
PARTS POSITIONED WITH 4 mm PITCH ON REELS. EACH REEL AND BAG TO BE MARKED WITH RoHS LABEL  
P/N 9100-117-0852-99 OR EQUIVALENT.  
6. ALUMINUM MOISTURE BARRIER BAG TO HAVE A MOISTURE SENSITIVITY LEVEL "2a" LABEL APPLIED AS PER JEDEC STD. 033  
7. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.  
8. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS).  
MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY,  
HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.



**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 - 17237                                                                                                        |  |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                     |  | REV<br>B                                                                                                                           |  |
| FRACTIONS: $\pm 1/64$<br>DECIMALS (.XX): $\pm .01$<br>DECIMALS (.XXX): $\pm .005$<br>DECIMALS (.XXX): $\pm .0005$<br>ANGLES: $\pm 1^\circ$                                                                                    |  | TITLE<br>BLUE PLCC-SM SMT LED<br>RoHS COMPLIANT                                                                                    |  |
| FINISH:                                                                                                                                                                                                                       |  | MATERIAL                                                                                                                           |  |
| FSCM<br>83330                                                                                                                                                                                                                 |  |  1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |  |
| SHEET                                                                                                                                                                                                                         |  | FAMILY TABLE:                                                                                                                      |  |