

RoHS COMPLIANT 561-XX0X-XX0F

Part Numbers with the "F" suffix ending are RoHS Compliant.
 For example: 561-2201-080F
 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.

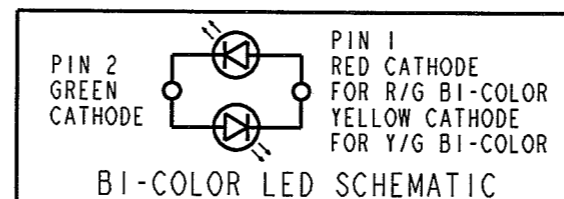
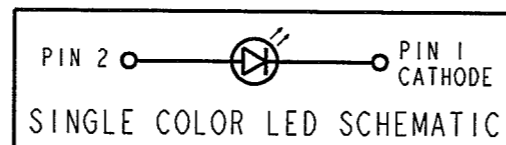
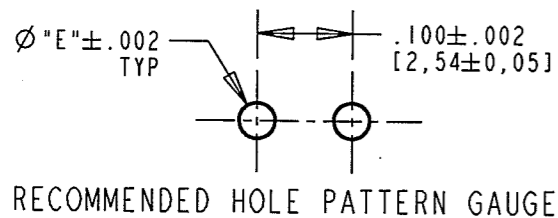
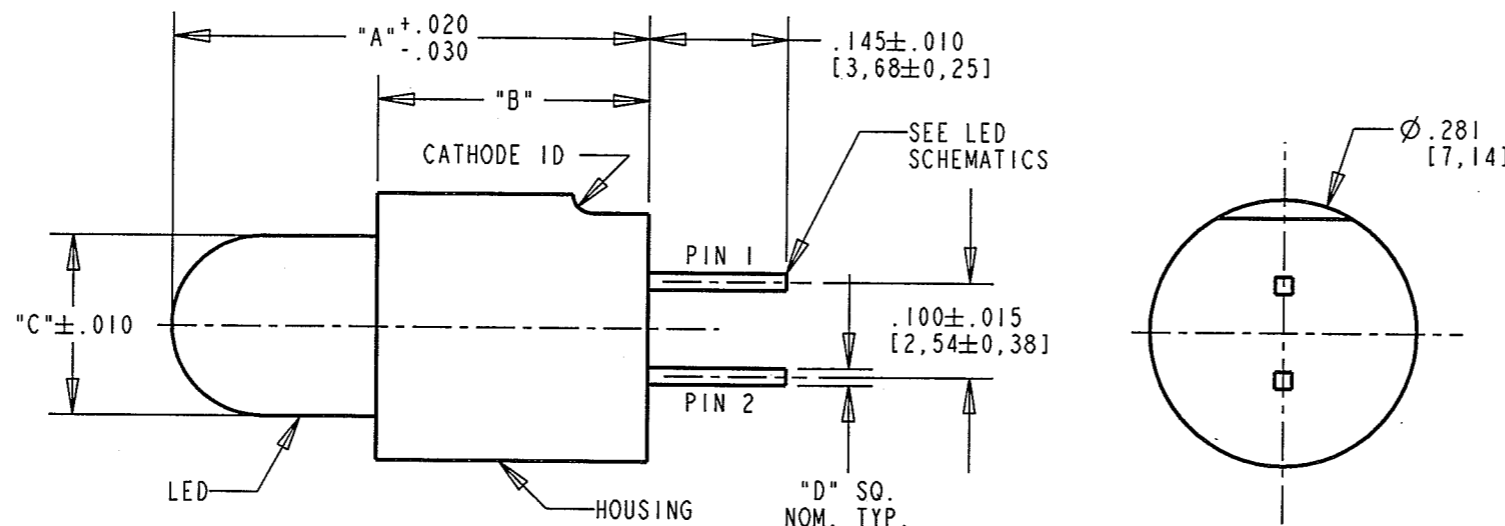


ATTENTION:
 OBSERVE PRECAUTIONS FOR
 HANDLING ELECTROSTATIC
 SENSITIVE DEVICES

| REV | ECN NO | REVISIONS | DRN | CKD | APP | DATE |
|-----|--------|-------------|-----|-----|-----|--------|
| A | | NEW RELEASE | KLJ | DE | A | 4-9-09 |

| DIALIGHT PART NUMBER | DIM "C" | DIM "D" | DIM "E" | LED COLOR | OPERATING CHARACTERISTICS AT 25°C AMBIENT | | | | | | | | | ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT | | | | | | | | | |
|----------------------|---------|---------|---------|------------------------------|---|--------------------------|-------|---------------------|---------|----------------------|-----|----------------------|--------------------------|--|---------------------|------------------------|-------------------------|------------------------|---------------------------|---------------------|-------------------|---------------------|-----------------------------------|
| | | | | | TEST CONDITION | LUMINOUS INTENSITY (mcd) | | FORWARD VOLTAGE (V) | | FORWARD CURRENT (mA) | | REVERSE CURRENT (µA) | DOMINANT WAVELENGTH (nm) | PEAK WAVELENGTH (nm) | VIEWING ANGLE (DEG) | POWER DISSIPATION (mW) | DC FORWARD CURRENT (mA) | DC FORWARD VOLTAGE (V) | PEAK FORWARD CURRENT (mA) | REVERSE VOLTAGE (V) | STORAGE TEMP (°C) | OPERATING TEMP (°C) | SOLDERING TEMP FOR 5 SECONDS (°C) |
| | | | | | | MIN | TYP | TYP | MAX | TYP | MAX | MAX | TYP | TYP | TYP | | | | | | | | |
| 561-0104-XXXF | .190 | .025 | .050 | RED DIFFUSED, 5V INT RES | Vf = 5V | 2.1 | — | — | — | 10 | 15 | 100 | 626 | 635 | 60 | — | — | 7.5 | — | 5 | -55 TO +100 | -40 TO +85 | 260 |
| 561-0901-XXXF | .190 | .018 | .040 | HIGH EFFICIENCY ORANGE DIFF | If = 10mA | 4.0 | 7.0 | 1.9 | 2.4 | — | — | 100 | 602 | 600 | 60 | — | 30 | — | 500 | 5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-1002-XXXF | .197 | .020 | .043 | InGaN BLUE WATER CLEAR | If = 20mA | 900 | 1500 | 3.6 | 4.0 | — | — | 50 | 470 | — | 30 | 120 | 30 | — | 100 | 5 | -40 TO +100 | -30 TO +85 | 260 |
| 561-1101-XXXF | .190 | .018 | .040 | RED DIFFUSED LOW CURRENT | If = 2mA | 1.5 | 2.3 | 1.7 | 2.0 | — | — | 50 | 626 | 635 | 50 | 24 | 7 | — | 500 | 5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-1201-XXXF | .190 | .018 | .040 | YELLOW DIFFUSED LOW CURRENT | If = 2mA | 1.2 | 1.8 | 1.9 | 2.7 | — | — | 50 | — | 583 | 50 | 36 | 7 | — | 500 | 5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-1301-XXXF | .190 | .018 | .040 | GREEN DIFFUSED LOW CURRENT | If = 2mA | 1.2 | 1.8 | 1.8 | 2.2 | — | — | 50 | — | 565 | 50 | 24 | 7 | — | 500 | 5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-2101-XXXF | .197 | .020 | .043 | HIGH EFFICIENCY RED DIFF | If = 10mA | 2.2 | 6.3 | 2.2 | 2.6 | — | — | 10 | — | 650 | 50 | 60 | 25 | — | 60 | 3 | -55 TO +100 | -55 TO +100 | 260 |
| 561-2201-XXXF | .195 | .020 | .043 | HIGH EFFICIENCY GREEN DIFF | If = 10mA | 4.5 | 7.9 | 2.0 | 2.5 | — | — | 10 | 570 | 572 | 50 | 130 | 40 | — | 500 | 12 | -55 TO +100 | -55 TO +100 | 260 |
| 561-2301-XXXF | .195 | .020 | .043 | HIGH EFFICIENCY YELLOW DIFF | If = 10mA | 4.5 | 16 | 2.0 | 2.0 | — | — | 10 | 587 | 586 | 50 | 130 | 40 | — | 500 | 12 | -55 TO +100 | -55 TO +100 | 260 |
| 561-2401-XXXF | .190 | .018 | .040 | RED TINTED NON-DIFFUSED | If = 10mA | 25 | 60 | 2.2 | 3.0 | — | — | 100 | — | 635 | 35 | 135 | 30 | — | 90 | 5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-2501-XXXF | .190 | .018 | .040 | GREEN TINTED NON-DIFFUSED | If = 10mA | 25 | 70 | 2.3 | 3.0 | — | — | 100 | — | 565 | 24 | 135 | 30 | — | 90 | 5 | -55 TO +100 | -20 TO +100 | 260 |
| 561-2601-XXXF | .197 | .020 | .043 | YELLOW TINTED NON-DIFFUSED | If = 10mA | 29 | 90 | 2.1 | 2.6 | — | — | 100 | 588 | 585 | 35 | 60 | 20 | — | 80 | 5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-3001-XXXF | .197 | .020 | .043 | RED/GREEN BI-COLOR | If = 20mA | 29/12 | 90/40 | 1.8/2.1 | 2.4/2.8 | — | — | 100 | — | 660/565 | 60 | 100/100 | 40/30 | — | 200/120 | 4/5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-3101-XXXF | .197 | .020 | .043 | YELLOW/GREEN BI-COLOR | If = 20mA | 2.5 | 8.7 | 2.1/2.1 | 2.8/2.8 | — | — | 100 | — | 585/565 | 50 | 60/100 | 20/30 | — | 80/120 | 5/5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-5101-XXXF | .197 | .020 | .043 | SUPER BRIGHT RED DIFFUSED | If = 20mA | 17 | 34 | 2.1 | 2.55 | — | — | 10 | — | 650 | 50 | 75 | 25 | — | 60 | 3 | -55 TO +100 | -55 TO +100 | 260 |
| 561-5201-XXXF | .197 | .018 | .040 | SUPER BRIGHT GREEN DIFFUSED | If = 20mA | 17 | 34 | 2.2 | 3.0 | — | — | 10 | — | 563 | 50 | 75 | 25 | — | 60 | 3 | -55 TO +100 | -55 TO +100 | 260 |
| 561-5301-XXXF | .197 | .020 | .043 | SUPER BRIGHT YELLOW DIFFUSED | If = 20mA | 17 | 34 | 2.2 | 3.0 | — | — | 10 | — | 585 | 50 | 75 | 25 | — | 60 | 3 | -55 TO +100 | -55 TO +100 | 260 |
| 561-5401-XXXF | .197 | .020 | .043 | SUPER BRIGHT AMBER DIFFUSED | If = 20mA | 17 | 34 | 2.2 | 3.0 | — | — | 10 | — | 610 | 50 | 75 | 25 | — | 60 | 3 | -55 TO +100 | -55 TO +100 | 260 |
| 561-5501-XXXF | .190 | .018 | .040 | RED WATER CLEAR | If = 20mA | 80 | 125 | 2.2 | 3.0 | — | — | 100 | — | 635 | 24 | 135 | 30 | — | 90 | 5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-5601-XXXF | .190 | .018 | .040 | GREEN WATER CLEAR | If = 20mA | 80 | 120 | 2.3 | 3.0 | — | — | 100 | 569 | 565 | 24 | 135 | 30 | — | 90 | 5 | -55 TO +100 | -20 TO +100 | 260 |
| 561-5701-XXXF | .190 | .025 | .050 | YELLOW WATER CLEAR | If = 20mA | 80 | 140 | 2.2 | 3.0 | — | — | 100 | 585 | 583 | 24 | 85 | 20 | — | 60 | 5 | -55 TO +100 | -55 TO +100 | 260 |
| 561-5801-XXXF | .197 | .024 | .049 | AMBER WATER CLEAR | If = 20mA | 60 | 90 | 2.2 | 2.5 | — | — | 100 | — | 605 | 20 | 125 | 50 | — | 100 | 4 | -30 TO +100 | -30 TO +85 | 260 |
| 561-5902-XXXF | .197 | .020 | .043 | InGaN GREEN WATER CLEAR | If = 20mA | 3000 | 5000 | 3.5 | 4.0 | — | — | 50 | 525 | — | 30 | 120 | 30 | — | 100 | 5 | -40 TO +100 | -30 TO +85 | 260 |
| 561-6002-XXXF | .197 | .020 | .043 | WHITE WATER CLEAR | If = 20mA | 1500 | 2500 | 3.5 | 4.0 | — | — | 50 | X = 0.33 Y = 0.36 | — | 50 | 120 | 30 | — | 100 | 5 | -40 TO +100 | -30 TO +85 | 260 |

| P/N SUFFIX (-XXXF) | DIM "A" | DIM "B" |
|--------------------|---------|---------|
| -050F | .500 | .275 |
| -060F | .600 | .375 |
| -070F | .700 | .475 |
| -080F | .800 | .575 |
| -090F | .900 | .675 |
| -100F | 1.000 | .775 |



NOTES:

- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- PIN NUMBERS FOR REF ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 561-XX0X-XX0F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

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| SCALE: 5.000 ALL DIM'S IN: INCHES (MM) | DRAWING NUMBER C-17724 | REV A |
| TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 | TITLE ∅5mm VERTICAL CBI RoHS COMPLIANT | MATERIAL |
| ANGLES: ±3° FINISH: | 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 | |
| FSCM 83330 | SHEET 1 OF 1 | FAMILY TABLE: |