



## Surface Mount LED Selector Guide

Prism® CBI® LED Circuit Board Indicators

Micro LED® Surface Mount LEDs



## Prism® CBI®

Dialight's Prism indicators are the industry's only SMD indicator series designed to survive 260°C peak reflow temperature AND provide the aesthetic appeal of a diffused lens for enhanced viewing. Ideal for limited-space applications and board-edge mounting, the Prism Series is available in a variety of package sizes including single level, bi-level, and tri-level configuration and in 2mm and 3mm lens size. The integral light pipes used in Prism are engineered for maximum light transmission and minimal light bleed while the diffused lens is also ideal for bi-color and tri-color applications where color-mixing is desired.



## Micro LED® SMD LED

Dialight's Micro LED Surface Mount LED product line provides one of the industry's widest range of discrete LEDs. Packaged in ChipLED, PLCC, right-angle and reverse-mount configurations, Dialight offers a full range of colors and intensities, including the latest AlInGaP and InGaN technology. With such a wide variety of mounting styles, colors, intensities, viewing angles and lens features, Micro LED series is sure to include a cost-effective solution to any application.

Contact your Authorized Dialight Distributor or local Sales Representative for more information or samples.  
<http://www.dialight.com/WhereToBuy/Status-Indication>

## Index

### 02 Product Overview

#### Prism® CBI®

- 03 591 Series
- 04 592 Series
- 05 593 Series
- 06 595 Series

#### Micro LED® SMD LED

- 07 Micro LED® SMD LED
- 09 PLCC
- Reverse Mount
- Right Angle
- 10 Right Angle

#### Drawings

- 11 Micro LED® SMD
- 12 Micro LED® SMD
- Right Angle
- 13 Reverse Mount
- PLCC
- 591Series pad layouts

#### New Products

- 14 Low Current LEDs

## Features and Benefits

### Prism® CBI®

- Compatible with automatic pick-and-place equipment for reduced installation costs
- RoHS Compliant
- Available with 2mA low current LED
- Eliminates wave soldering process
- Black, low-profile PPA housing enhances the contrast ratio for better clarity

### Micro LED® SMD LED

- Can be used with Dialight's wide-range of Optopipe® series light pipes.
- Package sizes include 0603, 0606, 0805, 1206, 1208, 1210, 1616
- Compatible with infrared reflow processes and JEDEC standards
- Helps to eliminate mixed technology pc board processing
- RoHS compliant
- Available in 2mA low current versions

## Typical Applications

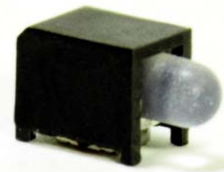
- Data center Infrastructure
  - Servers - Rack mount; blade; tower
  - Storage – High-performance storage subsystems for high- end enterprise
- Networking Equipment for enterprise data centers and telecom communication centers
  - Switches, routers, and network control equipment interconnected using fiber optic and high speed wiring
- Storage Networking Hardware
  - Fiber channel host bus adapter cards (HBAs); converged network adapter cards (CNAs); iSCSI adapter cards; InfiniBand adapter cards
- Next-Gen Wireless
  - Wireless Infrastructure
- Electronic Test & Measurement Instruments
- Communications Testing Equipment
- Process controls
- Automation
- Medical
- Handheld devices
- Battery powered applications (2mA version)

The following pages are organized as a product overview. Additional information is available at [www.dialight.com](http://www.dialight.com) including detailed specs and schematics, 3D models, and operating characteristics. The most recent version of this selector guide can be found at: [http://www.dialight.com/Assets/Brochures\\_And\\_Catalogs/Indication/SMT\\_Selector\\_Guide.pdf](http://www.dialight.com/Assets/Brochures_And_Catalogs/Indication/SMT_Selector_Guide.pdf)

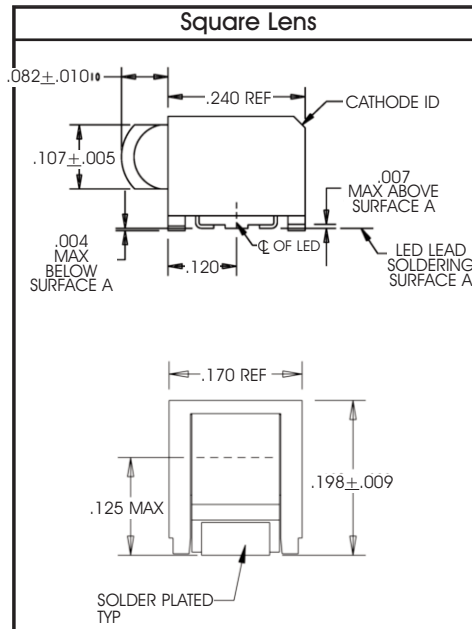
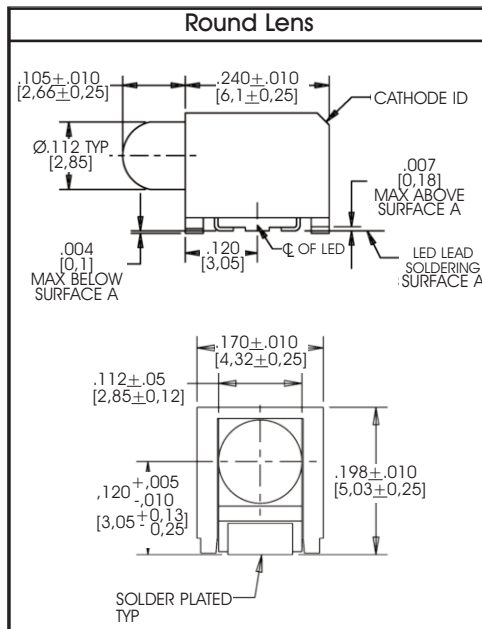


## 591 Series Prism® CBI®

### Single Level Surface Mount LED



### Specifications<sup>1</sup>



<sup>1</sup>For pad layout please see page 13

### Order Code

5 9 1 - X X 0 X - X X X F

Color      Lens Type      RoHS Compliant  
Current      Package Options

| Current      |                          |
|--------------|--------------------------|
| Current Code | Current Type             |
| 1            | Standard                 |
| 4            | Low Current <sup>2</sup> |

<sup>2</sup>Detail on page 14

| Lens Type |           |
|-----------|-----------|
| Lens Code | Lens Type |
| 0         | Round     |
| 1         | Square    |

| Packaging Type |                |
|----------------|----------------|
| Packaging Code | Packaging      |
| 02             | 20 piece strip |
| 07             | 7" Reel        |
| 13             | 13" Reel       |

| Color Field |        |               |                | Operating Characteristics |                            |                               |                          |
|-------------|--------|---------------|----------------|---------------------------|----------------------------|-------------------------------|--------------------------|
| Color Code  | Color  | Material      | Feature        | Test Condition            | V <sub>f</sub> Typ (Volts) | Type Luminous Intensity (mcd) | Type Dom Wavelength (nm) |
| 20*         | Red    | GaAsP/GaP     | Hi. Efficiency | I <sub>f</sub> = 10mA     | 2.0                        | 5.0                           | 628                      |
| 21          | Red    | AlGaAs        | -----          | I <sub>f</sub> = 10mA     | 1.8                        | 23.9                          | 645                      |
| 22          | Green  | AlGaP         | Hi. Intensity  | I <sub>f</sub> = 10mA     | 2.1                        | 9.1                           | 570                      |
| 23*         | Green  | GaP           | -----          | I <sub>f</sub> = 10mA     | 2.0                        | 4.0                           | 570                      |
| 24*         | Yellow | GaAsP/GaP     | -----          | I <sub>f</sub> = 10mA     | 2.0                        | 5.0                           | 587                      |
| 25*         | Orange | GaAsP         | -----          | I <sub>f</sub> = 10mA     | 2.0                        | 13.7                          | 606                      |
| 26          | Blue   | InGaP         | -----          | I <sub>f</sub> = 20mA     | 3.5                        | 6.0                           | 465                      |
| 27          | Yellow | AlInGaP       | -----          | I <sub>f</sub> = 10mA     | 2.0                        | 33.6                          | 587                      |
| 28          | White  | InGaP         | -----          | I <sub>f</sub> = 20mA     | 3.5                        | 19.0                          | x .33<br>y .33           |
| 30          | R/G    | GaAsP         | -----          | I <sub>f</sub> = 10mA     | 2.0/2.0                    | 6.5/8.0                       | 628/570                  |
| 31          | Y/G    | GaAsP/GaP     | -----          | I <sub>f</sub> = 10mA     | 2.0/2.0                    | 6.5/8.0                       | 586/570                  |
| 32          | R/Y    | AlGaP/AlGaP   | -----          | I <sub>f</sub> = 10mA     | 2.0/2.0                    | 6.5/6.5                       | 528/586                  |
| 34          | R/B    | AlInGaP/GaN   | -----          | I <sub>f</sub> = 20mA     | 1.9/3.9                    | 30/5                          | 626/470                  |
| 35          | R/G/B  | AlInGaP/InGaP | -----          | I <sub>f</sub> = 20mA     | 2.6/4.5/2.6                | 10/5/16                       | 645/466/570              |
| 36          | O/G    | GaAsP/GaP     | -----          | I <sub>f</sub> = 10mA     | 2.0/2.0                    | 5.5/8.5                       | 606/570                  |

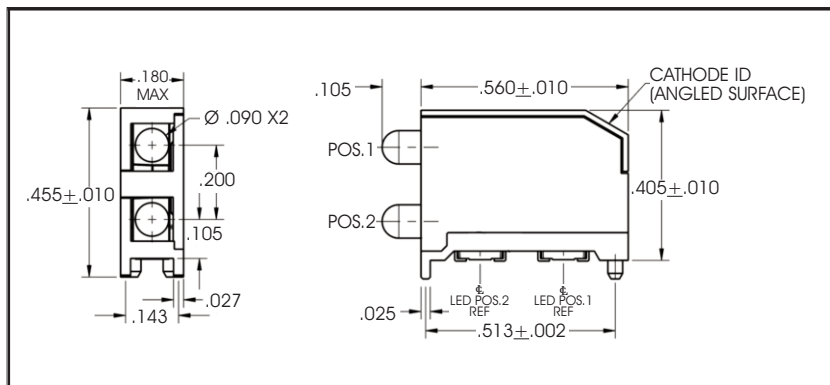
\*Low current version only available in marked colors (\*). See page 14 for details.



## Bi-Level Surface Mount LED Specifications



## Single Color

**Order Code**

5 9 2 - X X X X - 3 X X F

Color Pos. 1

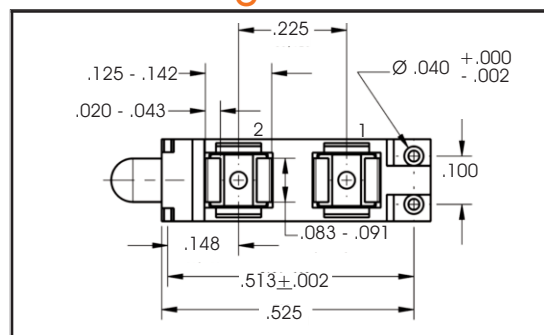
Color Pos. 2

RoHS Compliant

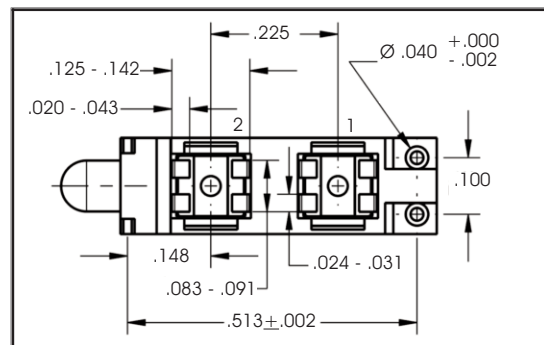
## Package Options

| Packaging Type |                |
|----------------|----------------|
| Packaging Code | Packaging      |
| 02             | 10 piece strip |
| 13             | 13" Reel       |

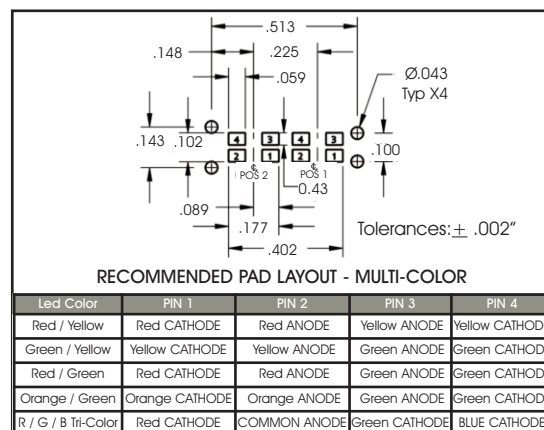
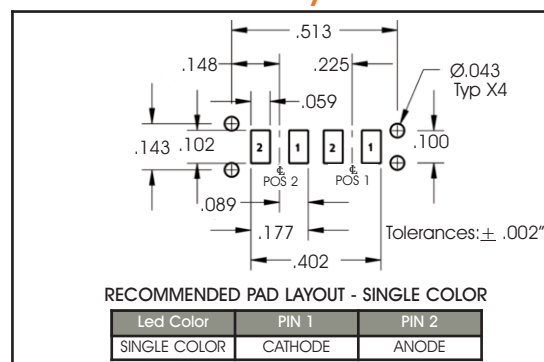
| Color Field |        |               |                | Operating Characteristics |                |                               |                         |
|-------------|--------|---------------|----------------|---------------------------|----------------|-------------------------------|-------------------------|
| Color Code  | Color  | Material      | Feature        | Test Condition            | Vf Typ (Volts) | Type Luminous Intensity (mcd) | Typ Dom Wavelength (nm) |
| 20          | Red    | GaAsP/GaP     | Hi. Efficiency | If = 10mA                 | 2.0            | 3                             | 628                     |
| 21          | Red    | AlGaAs        | -----          | If = 10mA                 | 1.8            | 9                             | 645                     |
| 22          | Green  | AlGaP         | Hi. Intensity  | If = 10mA                 | 2.0            | 6                             | 570                     |
| 23          | Green  | GaP           | -----          | If = 10mA                 | 2.0            | 4                             | 570                     |
| 24          | Yellow | GaAsP/GaP     | -----          | If = 10mA                 | 2.0            | 2                             | 587                     |
| 25          | Orange | GaAsP         | -----          | If = 10mA                 | 2.0            | 2                             | 606                     |
| 26          | Blue   | InGaN         | -----          | If = 10mA                 | 3.5            | 6                             | 465                     |
| 27          | Yellow | AlInGaP       | -----          | If = 20mA                 | 2.0            | 60                            | 587                     |
| 28          | White  | InGaN         | -----          | If = 10mA                 | 3.1            | 34                            | x .33<br>y .33          |
| 29          | Green  | InGaN         | -----          | If = 20mA                 | 3.7            | 56                            | 525                     |
| 30          | R/G    | GaAsP         | -----          | If = 10mA                 | 2.0/2.0        | 3/4                           | 628/570                 |
| 31          | Y/G    | GaAsP/GaP     | -----          | If = 10mA                 | 2.0/2.0        | 2/3                           | 590/570                 |
| 32          | R/Y    | AlGaP/AlGaP   | -----          | If = 20mA                 | 2.0/2.0        | 21/34                         | 633/587                 |
| 34          | R/B    | AlInGaP/InGaN | -----          | If = 10mA                 | 1.9/3.0        | 21/24                         | 625/467                 |
| 35          | R/G/B  | AlInGaP/InGaN | -----          | If = 20mA                 | 1.9/3.4/3.4    | 31/84/16                      | 626/525/470             |
| 36          | O/G    | GaAsP/GaP     | -----          | If = 10mA                 | 2.0/2.0        | 3/4                           | 606/570                 |



## Multi-Color



## Pad Layouts





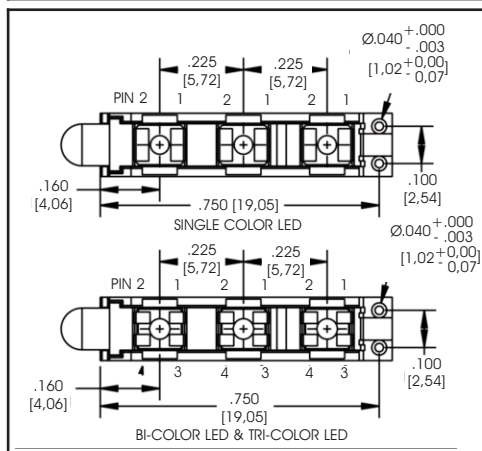
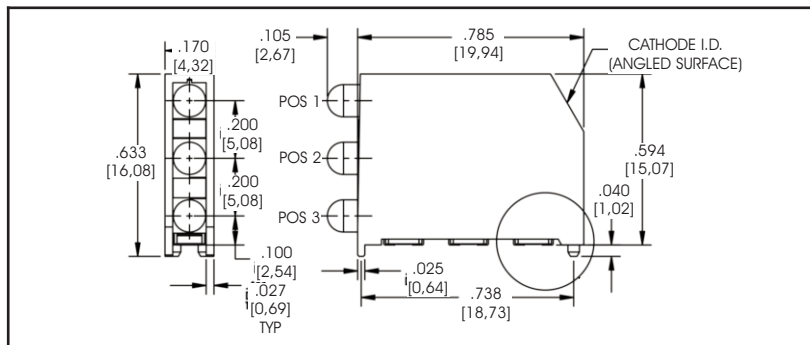


## 593 Series Prism® CBI®

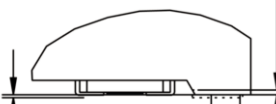
### Tri-Level Surface Mount LED



#### Specifications

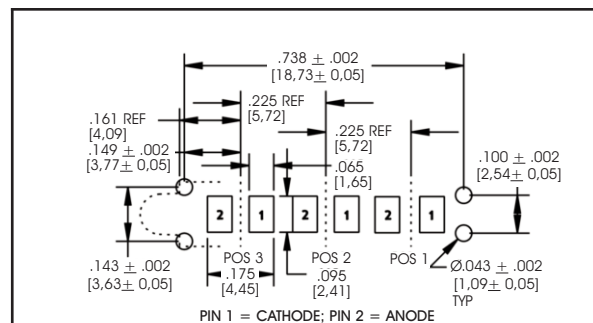


HOUSING SURFACE PERMITTED  
TO BE .007 [0,17] MAX ABOVE  
SURFACE 'A' LED LEADS



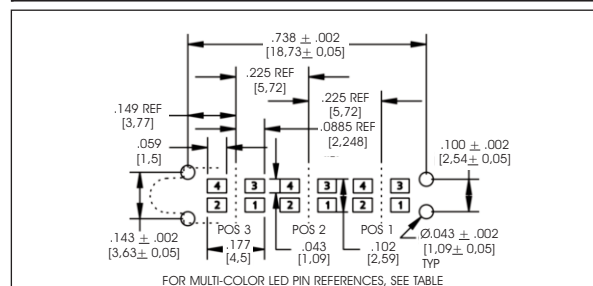
HOUSING SURFACE PERMITTED  
TO BE .004 [0,1] MAX ABOVE  
SURFACE 'A' LED LEADS

#### Pad Layouts



RECOMMENDED PAD LAYOUT - SINGLE COLOR

| Packaging Type |               |
|----------------|---------------|
| Packaging Code | Packaging     |
| 02             | 5 piece strip |
| 13             | 13" Reel      |



RECOMMENDED PAD LAYOUT - MULTI - COLOR

| MULTI-COLOR LED PIN REFERENCES |                |              |               |                |
|--------------------------------|----------------|--------------|---------------|----------------|
| Led Color                      | PIN 1          | PIN 2        | PIN 3         | PIN 4          |
| R/Y BI-COLOR                   | RED CATHODE    | RED ANODE    | YELLOW ANODE  | YELLOW CATHODE |
| Y/G BI-COLOR                   | YELLOW CATHODE | YELLOW ANODE | GREEN ANODE   | GREEN CATHODE  |
| R/G BI-COLOR                   | RED CATHODE    | RED ANODE    | GREEN ANODE   | GREEN CATHODE  |
| R/G/B BI-COLOR                 | RED CATHODE    | COMMON ANODE | GREEN CATHODE | BLUE CATHODE   |

#### Order Code

5 9 3 - X X X X X X - 0 X X F

Color Pos. 1

Color Pos. 3

RoHS Compliant

Color Pos. 2

Package Options

| Color Field |        |               |                | Operating Characteristics |                |                                        |                         |
|-------------|--------|---------------|----------------|---------------------------|----------------|----------------------------------------|-------------------------|
| Color Code  | Color  | Material      | Feature        | Test Condition            | Vf Typ (Volts) | Typ Luminous Intensity (mcd) If = 20mA | Typ Dom Wavelength (nm) |
| 20          | Red    | AlInGaP       | Hi. Efficiency | If = 10mA                 | 2.0            | 6.0                                    | 628                     |
| 21          | Red    | AlGaAs        | -----          | If = 10mA                 | 1.75           | 29.0                                   | 645                     |
| 22          | Green  | AlInGaP       | Hi. Intensity  | If = 10mA                 | 2.0            | 16.0                                   | 570                     |
| 23          | Green  | AlInGaP       | -----          | If = 10mA                 | 2.0            | 11.0                                   | 570                     |
| 24          | Yellow | GaAsP/GaP     | -----          | If = 10mA                 | 2.0            | 11.0                                   | 587                     |
| 26          | Blue   | InGaN         | -----          | If = 10mA                 | 3.5            | 7.0                                    | 465                     |
| 27          | Yellow | AlInGaP       | -----          | If = 10mA                 | 2.0            | 80.0                                   | 587                     |
| 28          | White  | InGaN         | -----          | If = 10mA                 | 3.1            | 85.0                                   | x .33<br>y .33          |
| 29          | Green  | InGaN         | -----          | If = 20mA                 | 3.4            | 150.0                                  | 525                     |
| 30          | R/G    | GaAsP         | -----          | If = 10mA                 | 2.0/2.0        | 7/10                                   | 628/570                 |
| 31          | Y/G    | GaAsP/GaP     | -----          | If = 10mA                 | 2.0/2.0        | 6/10                                   | 590/570                 |
| 32          | R/Y    | AlGaP/AlGaP   | -----          | If = 20mA                 | 2.0/2.0        | 45/70                                  | 633/587                 |
| 35          | R/G/B  | AlInGaP/InGaN | -----          | If = 20mA                 | 1.9/3.4/3.4    | 35/70/20                               | 626/525/470             |

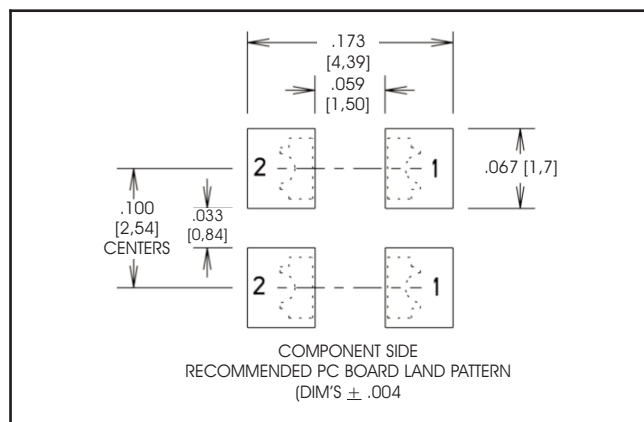
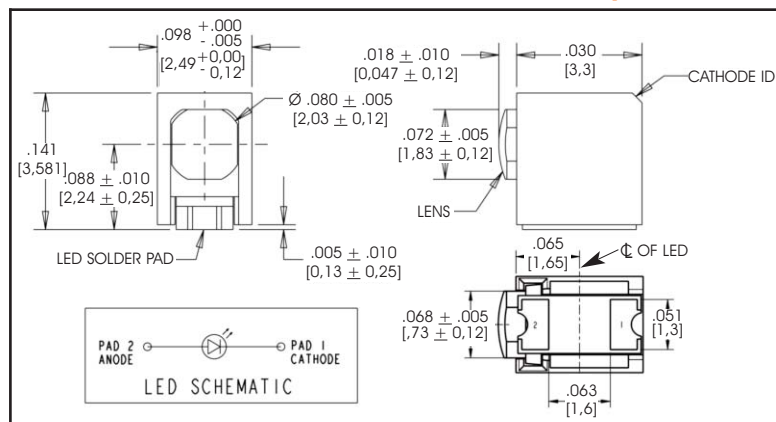


## 595 Series

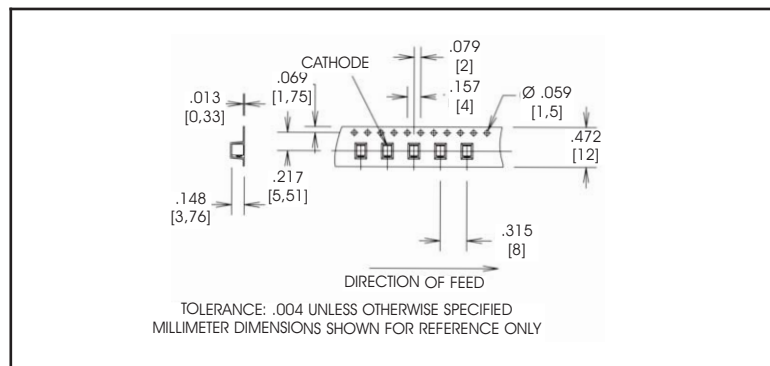
## 2mm Single Level Prism® CBI®



### Specifications



### Taping Specification



### Order Code

595 - XXXX - 0XX F

Color Code

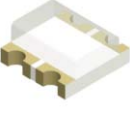
RoHS Compliant  
Package Options

| Color Field |        |          |               | Operating Characteristics |                |                              |                         |
|-------------|--------|----------|---------------|---------------------------|----------------|------------------------------|-------------------------|
| Color Code  | Color  | Material | Feature       | Test Condition            | Vf Typ (Volts) | Typ Luminous Intensity (mcd) | Typ Dom Wavelength (nm) |
| 2101        | Red    | AlGaAs   | -----         | 20 mA                     | 1.7            | 25.0                         | 647                     |
| 2201        | Green  | AlInGaP  | Hi. Intensity | 20 mA                     | 2.1            | 70.0                         | 572                     |
| 2301        | Green  | AlInGaP  | -----         | 20 mA                     | 2.1            | 11.0                         | 572                     |
| 2401        | Yellow | AlInGaP  | -----         | 20 mA                     | 2.2            | 9.0                          | 586                     |
| 2501        | Orange | AlInGaP  | -----         | 20 mA                     | 2.2            | 9.0                          | 606                     |
| 2602        | Blue   | InGaN    | -----         | 20 mA                     | 3.3            | 80.0*                        | 470                     |
| 2701        | Yellow | AlInGaP  | -----         | 20 mA                     | 2.0            | 41.0*                        | 590                     |
| 2902        | Green  | InGaN    | -----         | 20 mA                     | 3.3            | 300.0*                       | 525                     |

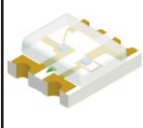
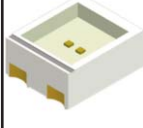
\*Test condition = 10mA

| Packaging Type |                |
|----------------|----------------|
| Packaging Code | Packaging      |
| 02             | 20 piece strip |
| 07             | 7" Reel        |
| 13             | 13" Reel       |

## Micro LED® SMD LED

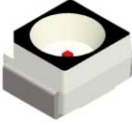
| ChipLED                                                                             | Dialight Part Number | Color                     | Material                | Dom. λ Typ. (nm) | Intensity Typ. (mcd) | Forward Voltage Typ. (V) | Viewing Angle | Height | Test Current (mA) | Fig | Type         |
|-------------------------------------------------------------------------------------|----------------------|---------------------------|-------------------------|------------------|----------------------|--------------------------|---------------|--------|-------------------|-----|--------------|
| 0603 Series Package (1.6mm X 0.8mm X Height)                                        |                      |                           |                         |                  |                      |                          |               |        |                   |     |              |
|    | 597-3326-607F        | Green                     | InGaP                   | 525              | 150                  | 3.4                      | 130           | 0.8    | 20                | 1   | Single Color |
|                                                                                     | 597-3607-607F        | Blue                      | InGaP                   | 470              | 60                   | 3.3                      | 130           | 0.8    | 20                | 1   | Single Color |
|                                                                                     | 597-5004-407F        | Red                       | AlInGaP                 | 626              | 50                   | 1.9                      | 152           | 0.7    | 20                | 1   | Single Color |
|                                                                                     | 597-5112-407F        | Red                       | AlGaAs                  | 647              | 11.7                 | 1.7                      | 152           | 0.7    | 20                | 1   | Single Color |
|                                                                                     | 597-5203-407F        | Orange                    | GaAsP                   | 606              | 3.4                  | 2.2                      | 152           | 0.7    | 20                | 1   | Single Color |
|                                                                                     | 597-5213-407F        | Orange                    | AlInGaP                 | 605              | 65                   | 1.9                      | 152           | 0.7    | 20                | 1   | Single Color |
|                                                                                     | 597-5223-407F        | Yellow                    | AlInGaP                 | 590              | 65                   | 1.9                      | 152           | 0.7    | 20                | 1   | Single Color |
|                                                                                     | 597-5312-407F        | Green                     | GaP                     | 567              | 6.4                  | 2.1                      | 152           | 0.7    | 20                | 1   | Single Color |
|    | 597-5412-407F        | Yellow-Green              | GaP                     | 572              | 11.7                 | 2.1                      | 152           | 0.7    | 20                | 1   | Single Color |
|                                                                                     | 598-8010-107F        | Red                       | AlInGaP                 | 635              | 40                   | 2.2                      | 140           | 0.7    | 20                | 2   | Single Color |
|                                                                                     | 598-8020-107F        | Red-Orange                | AlInGaP                 | 625              | 150                  | 2                        | 140           | 0.7    | 20                | 2   | Single Color |
|                                                                                     | 598-8030-107F        | Orange                    | AlInGaP                 | 605              | 80                   | 2                        | 140           | 0.7    | 20                | 2   | Single Color |
|                                                                                     | 598-8040-107F        | Yellow                    | AlInGaP                 | 593              | 130                  | 2                        | 140           | 0.7    | 20                | 2   | Single Color |
|                                                                                     | 598-8050-107F        | Yellow                    | AlInGaP                 | 587              | 130                  | 2                        | 140           | 0.7    | 20                | 2   | Single Color |
|                                                                                     | 598-8060-107F        | Yellow-Green              | AlInGaP                 | 573              | 40                   | 2                        | 140           | 0.7    | 20                | 2   | Single Color |
|                                                                                     | 598-8070-107F        | Green                     | GaP                     | 566              | 20                   | 3.2                      | 140           | 0.7    | 20                | 2   | Single Color |
|    | 598-8081-107F        | Green                     | InGaP                   | 523              | 300                  | 3.2                      | 140           | 0.7    | 20                | 2   | Single Color |
|                                                                                     | 598-8091-107F        | Blue                      | InGaP                   | 473              | 90                   | 3.2                      | 140           | 0.7    | 20                | 2   | Single Color |
| 0606 Series Package (1.6mm X 1.6mm X Height)                                        |                      |                           |                         |                  |                      |                          |               |        |                   |     |              |
|   | 598-8410-207CF       | Red / Green               | AlInGaP                 | 635 / 565        | 60 / 40              | 2 / 2                    | 140           | 0.7    | 20                | 3   | Bi-Color     |
|                                                                                     | 598-8430-207CF       | Orange / Green            | AlInGaP                 | 605 / 568        | 100 / 40             | 2 / 2                    | 140           | 0.7    | 20                | 3   | Bi-Color     |
|                                                                                     | 598-8440-207CF       | Yellow / Green            | AlInGaP                 | 590 / 570        | 135 / 50             | 2 / 2                    | 140           | 0.7    | 20                | 3   | Bi-Color     |
|                                                                                     | 598-8450-207CF       | Yellow / Green            | AlInGaP / InGaP         | 592 / 530        | 120 / 120            | 2 / 3.2                  | 140           | 0.7    | 20                | 3   | Bi-Color     |
|                                                                                     | 598-8460-207CF       | Yellow / Red              | AlInGaP                 | 590 / 640        | 135 / 50             | 2 / 2.2                  | 140           | 0.7    | 20                | 3   | Bi-Color     |
|                                                                                     | 598-8710-307F        | Red / Green / Blue        | AlInGaP / InGaP / InGaP | 635 / 525 / 470  | 60 / 120 / 90        | 2 / 3.2 / 3.2            | 140           | 0.7    | 20                | 4   | Tri-Color    |
|                                                                                     | 598-8720-307F        | Red-Orange / Green / Blue | AlInGaP / InGaP / InGaP | 625 / 525 / 470  | 120 / 150 / 60       | 2 / 3.2 / 3.2            | 140           | 0.7    | 20                | 4   | Tri-Color    |
|                                                                                     | 598-8740-307F        | Yellow / Green / Blue     | AlInGaP / InGaP / InGaP | 590 / 525 / 475  | 110 / 220 / 90       | 2 / 3.2 / 3.2            | 140           | 0.7    | 20                | 4   | Tri-Color    |
| 0805 Series Package (2.0mm X 1.25mm X Height)                                       |                      |                           |                         |                  |                      |                          |               |        |                   |     |              |
|  | 597-3003-407F        | Red                       | AlInGaP                 | 626              | 50                   | 1.9                      | 150           | 0.8    | 20                | 5   | Single Color |
|                                                                                     | 597-3006-607F        | Red                       | GaP                     | 630              | 6                    | 2.0                      | 130           | 1.1    | 10                | 5   | Single Color |
|                                                                                     | 597-3212-407F        | Orange                    | AlInGaP                 | 605              | 65                   | 1.9                      | 150           | 0.8    | 20                | 5   | Single Color |
|                                                                                     | 597-3222-407F        | Amber                     | AlInGaP                 | 590              | 65                   | 1.9                      | 150           | 0.8    | 20                | 5   | Single Color |
|                                                                                     | 597-3305-607F        | Green                     | GaP                     | 569              | 8                    | 2.1                      | 130           | 1.1    | 10                | 5   | Single Color |
|                                                                                     | 597-3405-607F        | Yellow                    | GaP                     | 588              | 6                    | 2.1                      | 130           | 1.1    | 10                | 5   | Single Color |
|                                                                                     | 597-5111-407F        | Red                       | AlGaAs                  | 647              | 11.7                 | 1.7                      | 150           | 0.8    | 20                | 5   | Single Color |
|                                                                                     | 597-5202-407F        | Orange                    | GaP                     | 606              | 3.7                  | 2.2                      | 150           | 0.8    | 20                | 5   | Single Color |
|  | 597-5311-407F        | Green                     | GaP                     | 567              | 6.4                  | 2.1                      | 150           | 0.8    | 20                | 5   | Single Color |
|                                                                                     | 597-5411-407F        | Yellow                    | GaP                     | 572              | 11.7                 | 2.1                      | 150           | 0.8    | 20                | 5   | Single Color |
|                                                                                     | 598-8110-107F        | Red                       | AlInGaP                 | 635              | 40                   | 2.2                      | 140           | 0.7    | 20                | 6   | Single Color |
|                                                                                     | 598-8120-107F        | Red-Orange                | AlInGaP                 | 625              | 150                  | 2                        | 140           | 0.7    | 20                | 6   | Single Color |
|                                                                                     | 598-8130-107F        | Orange                    | AlInGaP                 | 605              | 80                   | 2                        | 140           | 0.7    | 20                | 6   | Single Color |
|                                                                                     | 598-8140-107F        | Yellow                    | AlInGaP                 | 593              | 130                  | 2                        | 140           | 0.7    | 20                | 6   | Single Color |
|                                                                                     | 598-8150-107F        | Yellow                    | AlInGaP                 | 587              | 130                  | 2                        | 140           | 0.7    | 20                | 6   | Single Color |
|                                                                                     | 598-8160-107F        | Yellow-Green              | AlInGaP                 | 573              | 40                   | 2                        | 140           | 0.7    | 20                | 6   | Single Color |
|  | 598-8170-107F        | Green                     | GaP                     | 566              | 20                   | 3.2                      | 140           | 0.7    | 20                | 6   | Single Color |
|                                                                                     | 598-8181-107F        | Green                     | InGaP                   | 523              | 300                  | 3.2                      | 140           | 0.7    | 20                | 6   | Single Color |
|                                                                                     | 598-8191-107F        | Blue                      | InGaP                   | 473              | 90                   | 3.2                      | 140           | 0.7    | 20                | 6   | Single Color |
| 1206 Series Package (3.2mm X 1.6mm X Height)                                        |                      |                           |                         |                  |                      |                          |               |        |                   |     |              |
|  | 597-3007-607F        | Red                       | GaP                     | 621              | 8                    | 2.0                      | 130           | 1.1    | 20                | 7   | Single Color |
|                                                                                     | 597-3302-607F        | Green                     | GaP                     | 569              | 8                    | 2.1                      | 130           | 1.1    | 10                | 7   | Single Color |
|                                                                                     | 597-3403-607F        | Yellow                    | GaAsP                   | 588              | 6                    | 2.1                      | 130           | 1.1    | 10                | 7   | Single Color |
|                                                                                     | 598-8210-107F        | Red                       | AlInGaP                 | 635              | 40                   | 2.2                      | 140           | 0.7    | 20                | 8   | Single Color |
|                                                                                     | 598-8220-107F        | Red-Orange                | AlInGaP                 | 625              | 150                  | 2                        | 140           | 0.7    | 20                | 8   | Single Color |
|                                                                                     | 598-8230-107F        | Orange                    | AlInGaP                 | 605              | 80                   | 2                        | 140           | 0.7    | 20                | 8   | Single Color |
|                                                                                     | 598-8240-107F        | Yellow                    | AlInGaP                 | 593              | 130                  | 2                        | 140           | 0.7    | 20                | 8   | Single Color |
|                                                                                     | 598-8250-107F        | Yellow                    | AlInGaP                 | 587              | 130                  | 2                        | 140           | 0.7    | 20                | 8   | Single Color |
|  | 598-8260-107F        | Yellow-Green              | AlInGaP                 | 573              | 40                   | 2                        | 140           | 0.7    | 20                | 8   | Single Color |
|                                                                                     | 598-8270-107F        | Green                     | GaP                     | 566              | 20                   | 3.2                      | 140           | 0.7    | 20                | 8   | Single Color |
|                                                                                     | 598-8281-107F        | Green                     | InGaP                   | 523              | 300                  | 3.2                      | 140           | 0.7    | 20                | 8   | Single Color |
|                                                                                     | 598-8291-107F        | Blue                      | InGaP                   | 473              | 90                   | 3.2                      | 140           | 0.7    | 20                | 8   | Single Color |

## Micro LED® SMD LED (cont.)

| ChipLED                                                                             | Dialight Part Number | Color                     | Material                | Dom. $\lambda$ Typ. (nm) | Intensity Typ. (mcd) | Forward Voltage Typ. (V) | Viewing Angle | Height | Test Current (mA) | Fig | Type         |
|-------------------------------------------------------------------------------------|----------------------|---------------------------|-------------------------|--------------------------|----------------------|--------------------------|---------------|--------|-------------------|-----|--------------|
| 1206 Series Package with Lens (3.0mm X 1.6mm X Height)                              |                      |                           |                         |                          |                      |                          |               |        |                   |     |              |
|    | 597-3612-407F        | Blue                      | InGaN                   | 470                      | 133                  | 3.3                      | 50            | 1.5    | 20                | 9   | Single Color |
|                                                                                     | 597-3311-407F        | Green                     | GaP                     | 567                      | 12                   | 2.1                      | 70            | 1.5    | 20                | 9   | Single Color |
|                                                                                     | 597-3312-407F        | Green                     | AlInGaP                 | 561                      | 42                   | 2.1                      | 60            | 1.5    | 20                | 9   | Single Color |
|                                                                                     | 597-3325-407F        | Green                     | InGaN                   | 525                      | 415                  | 3.3                      | 50            | 1.5    | 20                | 9   | Single Color |
|                                                                                     | 597-3111-407F        | Red                       | GaAlAs                  | 647                      | 33.6                 | 1.7                      | 70            | 1.5    | 20                | 9   | Single Color |
|                                                                                     | 597-3021-407F        | Red                       | AlInGaP                 | 626                      | 240                  | 1.9                      | 60            | 1.5    | 20                | 9   | Single Color |
|                                                                                     | 597-3202-407F        | Orange                    | AlInGaP                 | 605                      | 240                  | 1.9                      | 60            | 1.5    | 20                | 9   | Single Color |
|                                                                                     | 597-3201-407F        | Orange                    | GaAsP/GaP               | 606                      | 9                    | 2.2                      | 70            | 1.5    | 20                | 9   | Single Color |
|                                                                                     | 597-3401-407F        | Yellow                    | GaAsP                   | 590                      | 6                    | 2.2                      | 70            | 1.5    | 20                | 9   | Single Color |
| 1208 Series Package with Reflector (3.0mm X 2.0mm X Height)                         |                      |                           |                         |                          |                      |                          |               |        |                   |     |              |
|   | 597-3002-507F        | Red                       | AlInGaP                 | 630                      | 63                   | 2.2                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3021-507F        | Red                       | GaAsP                   | 653                      | 6.3                  | 2.0                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3032-507F        | Red                       | AlInGaP                 | 620                      | 100                  | 2.2                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3111-507F        | Red                       | AlGaAs                  | 662                      | 16                   | 1.75                     | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3202-507F        | Orange                    | AlInGaP                 | 605                      | 160                  | 2.2                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3211-507F        | Orange                    | GaAsP                   | 612                      | 10                   | 2.0                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3301-507F        | Green                     | AlInGaP                 | 573                      | 25                   | 2.2                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3312-507F        | Green                     | AlInGaP                 | 560                      | 18                   | 2.1                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3322-507F        | Green                     | InGaN                   | 525                      | 140                  | 3.2                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3401-507F        | Yellow                    | GaAsP                   | 588                      | 6.3                  | 2.1                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3402-507F        | Yellow                    | AlInGaP                 | 590                      | 160                  | 2.2                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3502-507F        | Yellow-Green              | AlInGaP                 | 572                      | 25                   | 2.2                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3602-507F        | Blue                      | InGaN                   | 470                      | 100                  | 3.3                      | 110           | 1.3    | 20                | 10  | Single Color |
|                                                                                     | 597-3902-507F        | White                     | InGaN                   | x: 0.3<br>y: 0.3         | 900                  | 3.2                      | 110           | 1.3    | 20                | 10  | Single Color |
| 1210 Series Package (3.2mm X 2.7mm X Height)                                        |                      |                           |                         |                          |                      |                          |               |        |                   |     |              |
|  | 597-7702-607F        | Red/Green                 | GaAsP/GaP               | 621/569                  | 12/15                | 2.0/2.1                  | 130           | 1.1    | 20                | 11  | Bi-Color     |
|                                                                                     | 597-7722-607F        | Yellow/Green              | GaP/GaAsP               | 588/569                  | 9/15                 | 2.1/2.1                  | 130           | 1.1    | 20                | 11  | Bi-Color     |
|                                                                                     | 598-8610-207F        | Red / Green               | AlInGaP                 | 635 / 565                | 60 / 40              | 2 / 2                    | 140           | 0.7    | 20                | 12  | Bi-Color     |
|                                                                                     | 598-8621-207F        | Red-Orange / Green        | AlInGaP / InGaN         | 625 / 525                | 100 / 220            | 2 / 3.2                  | 140           | 0.7    | 20                | 12  | Bi-Color     |
|                                                                                     | 598-8631-207F        | Red-Orange / Green        | AlInGaP                 | 625 / 568                | 110 / 40             | 2 / 2                    | 140           | 0.7    | 20                | 12  | Bi-Color     |
|                                                                                     | 598-8640-207F        | Yellow / Green            | AlInGaP                 | 590 / 570                | 135 / 50             | 2 / 2                    | 140           | 0.7    | 20                | 12  | Bi-Color     |
|                                                                                     | 598-8660-207F        | Yellow / Red              | AlInGaP                 | 590 / 640                | 135 / 50             | 2 / 2.2                  | 140           | 0.7    | 20                | 12  | Bi-Color     |
|                                                                                     | 598-8610-307F        | Red / Green / Blue        | AlInGaP                 | 635 / 525 / 470          | 60 / 120 / 80        | 2 / 3.2 / 3.2            | 140           | 0.7    | 20                | 13  | Tri-Color    |
|                                                                                     | 598-8920-307F        | Red-Orange / Green / Blue | AlInGaP / InGaN / InGaN | 625 / 525 / 470          | 120 / 150 / 60       | 2 / 3.2 / 3.2            | 140           | 0.7    | 20                | 13  | Tri-Color    |
|                                                                                     | 598-8940-307F        | Yellow / Green / Blue     | AlInGaP / InGaN / InGaN | 590 / 525 / 475          | 110 / 220 / 90       | 2 / 3.2 / 3.2            | 140           | 0.7    | 20                | 13  | Tri-Color    |
| 1210 Series Package with Reflector (3.0mm X 2.5mm X Height)                         |                      |                           |                         |                          |                      |                          |               |        |                   |     |              |
|  | 597-7701-507F        | Red/Green                 | GaAsP/GaP               | 653/575                  | 6.3 / 16             | 2.0/2.2                  | 100           | 1.3    | 20                | 14  | Bi-Color     |
|                                                                                     | 597-7721-507F        | Yellow/Green              | GaAsP/GaP               | 589/575                  | 6.3 / 21             | 2.1/2.2                  | 100           | 1.3    | 20                | 14  | Bi-Color     |



# PLCC

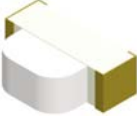
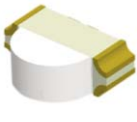
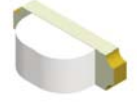
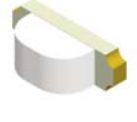
| PLCC                                                                              | Dialight Part Number | Color                  | Material                    | Dom . Typ. (nm)     | Intensity Typ. (mcd) | Forward Voltage Typ. (V) | Viewing Angle | Height | Test Current (mA) | Fig | Type         |
|-----------------------------------------------------------------------------------|----------------------|------------------------|-----------------------------|---------------------|----------------------|--------------------------|---------------|--------|-------------------|-----|--------------|
| PLCC-2 Series Package with Reflector (3.5mm X 2.8mm X Height)                     |                      |                        |                             |                     |                      |                          |               |        |                   |     |              |
|  | 597-3001-207F        | Red                    | GaAsP/GaP                   | 620                 | 10                   | 2.0                      | 120           | 1.9    | 20                | 24  | Single Color |
|                                                                                   | 597-3008-207F        | Red                    | InGaAlP                     | 630                 | 12.6                 | 1.8                      | 120           | 1.9    | 2                 | 24  | Single Color |
|                                                                                   | 597-3121-207F        | Red                    | AlGaAs                      | 645                 | 35.5                 | 1.75                     | 120           | 1.9    | 10                | 24  | Single Color |
|                                                                                   | 597-3208-207F        | Orange                 | InGaAlP                     | 606                 | 19.6                 | 1.8                      | 120           | 1.9    | 2                 | 24  | Single Color |
|                                                                                   | 597-3211-207F        | Orange                 | GaAsP/GaP                   | 606                 | 18.3                 | 2.0                      | 120           | 1.9    | 10                | 24  | Single Color |
|                                                                                   | 597-3231-207F        | Yellow                 | AlInGaP                     | 587                 | 100                  | 2.0                      | 120           | 1.9    | 20                | 24  | Single Color |
|                                                                                   | 597-3301-207F        | Green                  | GaAsP/GaP                   | 570                 | 19.6                 | 2.0                      | 120           | 1.9    | 10                | 24  | Single Color |
|                                                                                   | 597-3306-207F        | Green                  | GaAlP                       | 570                 | 24                   | 2.0                      | 120           | 1.9    | 10                | 24  | Single Color |
|                                                                                   | 597-3308-207F        | Green                  | InGaAlP                     | 570                 | 6.3                  | 1.8                      | 120           | 1.9    | 2                 | 24  | Single Color |
|                                                                                   | 597-3401-207F        | Yellow                 | GaAsP/GaP                   | 587                 | 12.6                 | 2.0                      | 120           | 1.9    | 10                | 24  | Single Color |
|                                                                                   | 597-3408-207F        | Yellow                 | InGaAlP                     | 587                 | 15.7                 | 1.8                      | 120           | 1.9    | 2                 | 24  | Single Color |
|                                                                                   | 597-3601-207F        | Blue                   | InGaN                       | 465                 | 11                   | 3.5                      | 120           | 1.9    | 10                | 24  | Single Color |
|                                                                                   | 597-3901-207F        | White                  | InGaN                       | x: 0.32<br>y: 0.31  | 135                  | 3.5                      | 120           | 1.9    | 20                | 24  | Single Color |
| PLCC-4 Series Package with Reflector (3.5mm X 2.8mm X Height)                     |                      |                        |                             |                     |                      |                          |               |        |                   |     |              |
|  | 597-3029-207F        | Red                    | InGaAlP                     | 625                 | 1800                 | 2.15                     | 120           | 1.9    | 50                | 25  | Single Color |
|                                                                                   | 597-3209-207F        | Orange                 | InGaAlP                     | 606                 | 2240                 | 2.15                     | 120           | 1.9    | 50                | 25  | Single Color |
|                                                                                   | 597-3329-207F        | Green                  | InGaN                       | 525                 | 1800                 | 3.4                      | 120           | 1.9    | 30                | 25  | Single Color |
|                                                                                   | 597-3409-207F        | Yellow                 | InGaAlP                     | 589                 | 1800                 | 2.15                     | 120           | 1.9    | 50                | 25  | Single Color |
|                                                                                   | 597-3609-207F        | Blue                   | InGaN                       | 469                 | 450                  | 3.4                      | 120           | 1.9    | 30                | 25  | Single Color |
|                                                                                   | 597-3909-207F        | White                  | InGaN                       | x:0.30,<br>y:0.28   | 1600                 | 3.3                      | 120           | 1.9    | 30                | 25  | Single Color |
|                                                                                   | 597-7701-207F        | Red/Green              | GaAsP/GaP                   | 628/570             | 11.3/11.3            | 2.0                      | 120           | 1.9    | 10                | 26  | Bi-Color     |
|                                                                                   | 597-7721-207F        | Yellow/Green           | Gap/GaAsP                   | 590/570             | 16/16                | 2.1/2.0                  | 120           | 1.9    | 20                | 26  | Bi-Color     |
|                                                                                   | 597-7731-207F        | Red/Yellow             | GaAlP                       | 628/590             | 10.5/10.5            | 2.0/2.0                  | 120           | 1.9    | 10                | 26  | Bi-Color     |
|                                                                                   | 597-7741-207F        | Orange/Green           | GaAsP/GaP                   | 606/570             | 11.3/17.6            | 2.0                      | 120           | 1.9    | 10                | 26  | Bi-Color     |
|                                                                                   | 597-7752-007F        | Red/Green              | AlInGaP/InGaN               | 625/525             | 350/850              | 2.0/3.15                 | 120           | 1.9    | 20                | 26  | Bi-Color     |
|                                                                                   | 597-7761-207F        | Orange/Green           | GaAsP/GaP                   | 605/557             | 11.3/17.6            | 2.0                      | 120           | 1.9    | 10                | 26  | Bi-Color     |
|                                                                                   | 597-7781-207F        | Red/Blue               | InGaAlP/GaN                 | 633/467             | 45/11                | 2.0/3.5                  | 120           | 1.9    | 10                | 26  | Bi-Color     |
|                                                                                   | 597-7712-207F        | Red/<br>Green/<br>Blue | AlInGaP/<br>InGaN/<br>InGaN | 617/<br>528/<br>470 | 190/<br>370/<br>98   | 2/3.5/3.6                | 120           | 1.9    | 20                | 27  | Tri-Color    |

## Reverse Mount

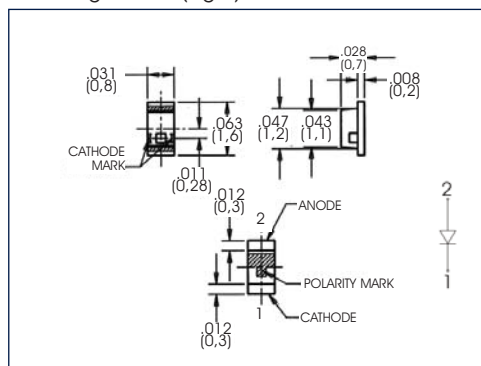
| Reverse Mount                                                                       | Dialight Part Number | Color        | Material      | Dom . Typ. (nm) | Intensity Typ. (mcd) | Forward Voltage Typ. (V) | Viewing Angle | Height | Test Current (mA) | Fig | Type         |
|-------------------------------------------------------------------------------------|----------------------|--------------|---------------|-----------------|----------------------|--------------------------|---------------|--------|-------------------|-----|--------------|
| 1206 Series Package (3.2mm X 1.6 X Height)                                          |                      |              |               |                 |                      |                          |               |        |                   |     |              |
|  | 597-6001-607F        | Red          | AlInGaP       | 631             | 150                  | 2.0                      | 70            | 1.1    | 20                | 28  | Single Color |
|                                                                                     | 597-6201-607F        | Orange       | AlInGaP       | 605             | 260                  | 2.0                      | 70            | 1.1    | 20                | 28  | Single Color |
|                                                                                     | 597-6301-607F        | Green        | InGaN         | 525             | 410                  | 3.0                      | 70            | 1.1    | 20                | 28  | Single Color |
|                                                                                     | 597-6401-607F        | Yellow       | AlInGaP       | 587             | 240                  | 2.0                      | 70            | 1.1    | 20                | 28  | Single Color |
|                                                                                     | 597-6501-607F        | Yellow-Green | AlInGaP       | 572             | 104                  | 2.2                      | 70            | 1.1    | 20                | 28  | Single Color |
|                                                                                     | 597-6601-607F        | Blue         | InGaN         | 470             | 112                  | 3.0                      | 70            | 1.1    | 20                | 28  | Single Color |
|                                                                                     | 597-6901-607F        | White        | InGaN         | x .304,y.301    | 70                   | 3                        | 70            | 1.1    | 5                 | 28  | Single Color |
|                                                                                     | 597-7703-607F        | Red/Green    | AlInGaP       | 631/571         | 55/45                | 2.0                      | 130           | 1.1    | 20                | 29  | Bi-Color     |
|                                                                                     | 597-7783-607F        | Red/Blue     | AlInGaP/InGaN | 631/470         | 45/45                | 2.0/3.3                  | 130           | 1.1    | 20                | 29  | Bi-Color     |

## Right Angle

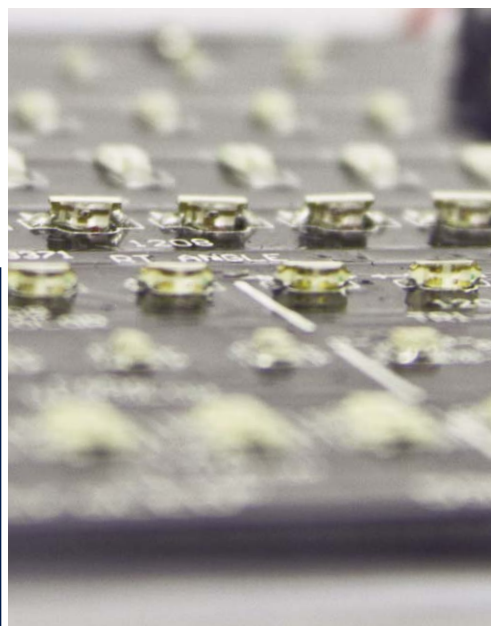
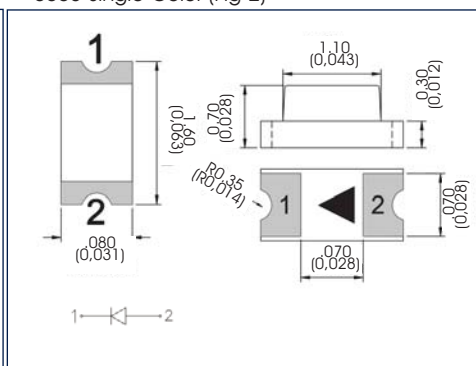
| Right Angle                                                                         | Dialight Part Number | Color        | Material | Dom . λ Typ. (nm)  | Intensity Typ. (mcd) | Forward Voltage Typ. (V) | Viewing Angle | Height | Test Current (mA) | Fig | Type         |
|-------------------------------------------------------------------------------------|----------------------|--------------|----------|--------------------|----------------------|--------------------------|---------------|--------|-------------------|-----|--------------|
| 0605 Series Package ( 1.6mm X 1.15mm X Height)                                      |                      |              |          |                    |                      |                          |               |        |                   |     |              |
|  | 597-2003-507F        | Red          | AlInGaP  | 630                | 40                   | 2.2                      | 135           | 0.55   | 20                | 15  | Single Color |
|                                                                                     | 597-2033-507F        | Red          | AlInGaP  | 620                | 63                   | 2.2                      | 135           | 0.55   | 20                | 15  | Single Color |
|                                                                                     | 597-2203-507F        | Orange       | AlInGaP  | 605                | 100                  | 2.2                      | 135           | 0.55   | 20                | 15  | Single Color |
|                                                                                     | 597-2403-507F        | Yellow       | AlInGaP  | 590                | 63                   | 2.0                      | 135           | 0.55   | 30                | 15  | Single Color |
|                                                                                     | 597-2503-507F        | Yellow-Green | AlInGaP  | 572                | 25                   | 2.2                      | 135           | 0.55   | 20                | 15  | Single Color |
|                                                                                     | 597-2603-507F        | Blue         | InGaN    | 470                | 140                  | 3.2                      | 140           | 0.55   | 20                | 15  | Single Color |
|                                                                                     | 597-2903-507F        | White        | InGaN    | x: 0.31<br>y: 0.31 | 170                  | 3.1                      | 150           | 0.55   | 10                | 15  | Single Color |
|                                                                                     | 597-2323-507F        | Green        | InGaN    | 527                | 56                   | 3.0                      | 140           | 0.55   | 5                 | 15  | Single Color |

| Right Angle                                                                         | Dialight Part Number | Color                     | Material                    | Dom. $\lambda$ Typ. (nm) | Intensity Typ. (mcd) | Forward Voltage Typ. (V) | Viewing Angle | Height | Test Current (mA) | Fig | Type         |
|-------------------------------------------------------------------------------------|----------------------|---------------------------|-----------------------------|--------------------------|----------------------|--------------------------|---------------|--------|-------------------|-----|--------------|
| 1208 Series Package (3.0mm X 2.0mm X Height)                                        |                      |                           |                             |                          |                      |                          |               |        |                   |     |              |
|    | 597-2002-407F        | Red                       | AlInGaP                     | 626                      | 50                   | 1.9                      | 130           | 1      | 20                | 16  | Single Color |
|                                                                                     | 597-2111-407F        | Red                       | GaAlAs                      | 647                      | 12.4                 | 1.7                      | 130           | 1      | 20                | 16  | Single Color |
|                                                                                     | 597-2201-407F        | Amber                     | GaAsP/GaP                   | 606                      | 3                    | 2.2                      | 130           | 1      | 20                | 16  | Single Color |
|                                                                                     | 597-2212-407F        | Orange                    | AlInGaP                     | 605                      | 65                   | 1.9                      | 130           | 1      | 20                | 16  | Single Color |
|                                                                                     | 597-2222-407F        | Yellow                    | AlInGaP                     | 590                      | 65                   | 1.9                      | 130           | 1      | 20                | 16  | Single Color |
|                                                                                     | 597-2311-407F        | Green                     | GaP                         | 567                      | 5.2                  | 2.1                      | 130           | 1      | 20                | 16  | Single Color |
|                                                                                     | 597-2401-407F        | Yellow                    | GaAsP/GaP                   | 590                      | 3                    | 2.2                      | 130           | 1      | 20                | 16  | Single Color |
|    | 597-2413-407F        | Yellow                    | GaAsP/GaP                   | 586                      | 8.8                  | 2.1                      | 130           | 1      | 25                | 16  | Single Color |
|                                                                                     | 597-2002-607F        | Red                       | AlInGaP                     | 631                      | 125                  | 2.0                      | 130           | 1      | 20                | 17  | Single Color |
|                                                                                     | 597-2211-607F        | Orange                    | AlInGaP                     | 605                      | 125                  | 2.0                      | 130           | 1      | 20                | 17  | Single Color |
|                                                                                     | 597-2222-607F        | Yellow                    | AlInGaP                     | 589                      | 125                  | 2.0                      | 130           | 1      | 20                | 17  | Single Color |
|                                                                                     | 597-2501-607F        | Green                     | AlInGaP                     | 572                      | 50                   | 2.0                      | 130           | 1      | 20                | 17  | Single Color |
|                                                                                     | 597-2601-607F        | Green                     | InGaP                       | 525                      | 195                  | 3.2                      | 130           | 1      | 20                | 17  | Single Color |
|                                                                                     | 597-2901-607F        | Blue                      | InGaP                       | 470                      | 125                  | 3.0                      | 130           | 1      | 20                | 17  | Single Color |
|    | 597-2723-607F        | Yellow/Green              | AlInGaP                     | 589/571                  | 75/35                | 2.0                      | 130           | 1      | 20                | 18  | Bi-Color     |
|                                                                                     | 597-2751-607F        | Red/Green                 | AlInGaP                     | 631/571                  | 45/35                | 2.0                      | 130           | 1      | 20                | 18  | Bi-Color     |
|                                                                                     | 597-2712-607F        | Red/<br>Green/<br>Blue    | AlInGaP/<br>InGaP/<br>InGaP | 624/<br>525/<br>470      | 110/<br>280/<br>100  | 2/<br>3.5/<br>3.5        | 130           | 1      | 20                | 19  | Tri-Color    |
| 1208 Series Package (3.2mm X 1.5mm X Height) Note size difference                   |                      |                           |                             |                          |                      |                          |               |        |                   |     |              |
|  | 598-8310-117F        | Red                       | AlInGaP                     | 635                      | 40                   | 2.2                      | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8320-117F        | Red-Orange                | AlInGaP                     | 625                      | 150                  | 2                        | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8330-117F        | Orange                    | AlInGaP                     | 605                      | 80                   | 2                        | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8340-117F        | Yellow                    | AlInGaP                     | 593                      | 130                  | 2                        | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8350-117F        | Yellow                    | AlInGaP                     | 587                      | 130                  | 2                        | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8360-117F        | Yellow-Green              | AlInGaP                     | 573                      | 40                   | 2                        | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8370-117F        | Green                     | GaP                         | 566                      | 20                   | 2                        | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8380-117F        | Green                     | InGaP                       | 523                      | 220                  | 3.2                      | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8391-117F        | Blue                      | InGaP                       | 473                      | 90                   | 3.2                      | 160           | 1      | 20                | 20  | Single Color |
|                                                                                     | 598-8510-207F        | Red / Green               | AlInGaP                     | 635 / 565                | 60 / 40              | 2 / 2                    | 160           | 1      | 20                | 21  | Bi-Color     |
|                                                                                     | 598-8520-207F        | Red Orange / Green        | AlInGaP                     | 625 / 568                | 110 / 40             | 2                        | 160           | 1      | 20                | 21  | Bi-Color     |
|                                                                                     | 598-8530-207F        | Orange / Green            | AlInGaP                     | 605 / 568                | 100 / 40             | 2 / 2                    | 160           | 1      | 20                | 21  | Bi-Color     |
|                                                                                     | 598-8540-207F        | Yellow / Green            | AlInGaP                     | 590 / 570                | 135 / 50             | 2 / 2                    | 160           | 1      | 20                | 21  | Bi-Color     |
|                                                                                     | 598-8550-207F        | Yellow / Green            | AlInGaP / InGaP             | 592 / 530                | 120 / 120            | 2 / 3.2                  | 160           | 1      | 20                | 21  | Bi-Color     |
|                                                                                     | 598-8560-207F        | Yellow / Red              | AlInGaP                     | 590 / 640                | 135 / 50             | 2 / 2.2                  | 160           | 1      | 20                | 21  | Bi-Color     |
|                                                                                     | 598-8810-307F        | Red / Green / Blue        | AlInGaP / InGaP / InGaP     | 635 / 525 / 470          | 60 / 120 / 90        | 2 / 3.2 / 3.2            | 160           | 1      | 20                | 22  | Tri-Color    |
|                                                                                     | 598-8820-307F        | Red-Orange / Green / Blue | AlInGaP / InGaP / InGaP     | 625 / 525 / 470          | 120 / 150 / 60       | 2 / 3.2 / 3.2            | 160           | 1      | 20                | 22  | Tri-Color    |
|                                                                                     | 598-8840-307F        | Yellow / Green / Blue     | AlInGaP / InGaP / InGaP     | 590 / 525 / 475          | 110 / 220 / 90       | 2 / 3.2 / 3.2            | 160           | 1      | 20                | 22  | Tri-Color    |
| 1616 Series Package with Reflector (4mm X 4mm X Height)                             |                      |                           |                             |                          |                      |                          |               |        |                   |     |              |
|  | 597-2001-213F        | Red                       | GaP/GaAsP                   | 630                      | 7.8                  | 1.8                      | 120           | 3.6    | 2                 | 23  | Single Color |
|                                                                                     | 597-2201-815F        | Yellow                    | AlInGaP                     | 587                      | 590                  | 2.1                      | 120           | 3.6    | 20                | 23  | Single Color |
|                                                                                     | 597-2301-213F        | Green                     | GaP/GaP                     | 570                      | 5.6                  | 1.8                      | 120           | 3.6    | 2                 | 23  | Single Color |
|                                                                                     | 597-2321-816F        | Green                     | InGaP                       | 528                      | 627                  | 3.5                      | 120           | 3.6    | 20                | 23  | Single Color |
|                                                                                     | 597-2401-213F        | Yellow                    | GaP/GaAsP                   | 587                      | 14                   | 1.8                      | 120           | 3.6    | 2                 | 23  | Single Color |
|                                                                                     | 597-2301-824F        | Green                     | AlInGaP                     | 570                      | 78                   | 2.0                      | 120           | 3.6    | 20                | 23  | Single Color |
|                                                                                     | 597-2601-817F        | Blue                      | InGaP                       | 470                      | 157                  | 3.6                      | 120           | 3.6    | 20                | 23  | Single Color |
|                                                                                     | 597-2901-822F        | White                     | InGaP                       | x: 0.33<br>y: 0.33       | 532                  | 3.6                      | 120           | 3.6    | 20                | 23  | Single Color |

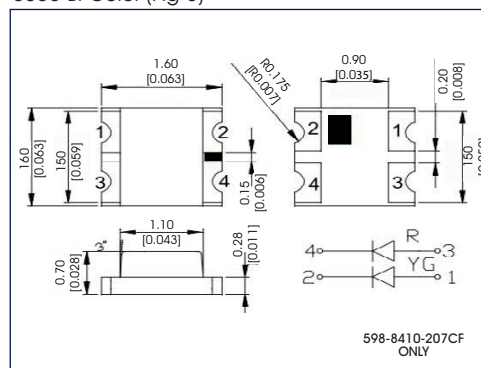
## 0603 Single Color (Fig 1)



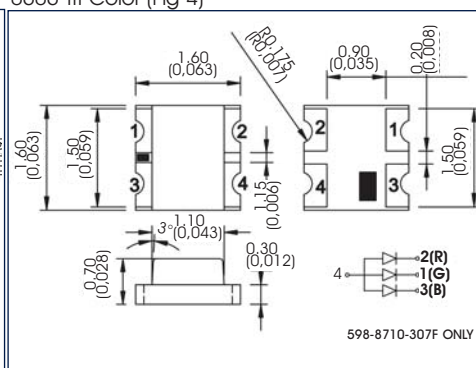
0603 Single Color (Fig 2)



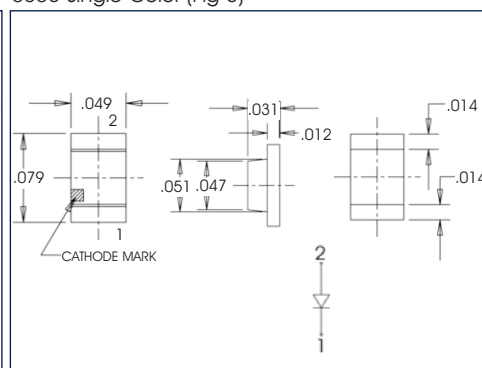
0606 Bi-Color (Fig 3)



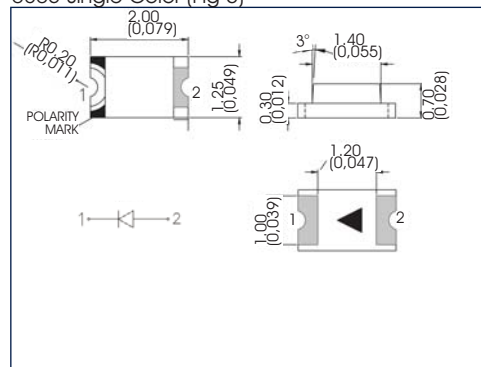
0606 Tri-Color (Fig 4)



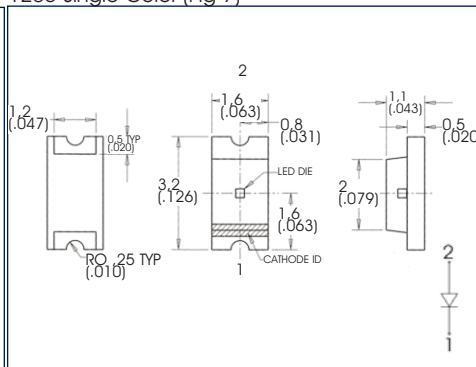
0805 Single Color (Fig 5)



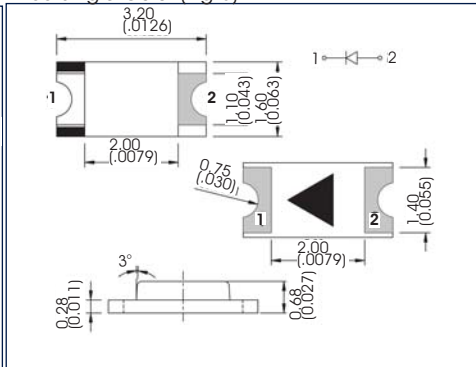
0805 Single Color (Fig 6)



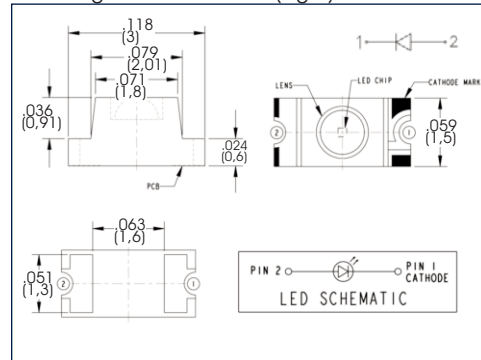
1206 Single Color (Fig 7)



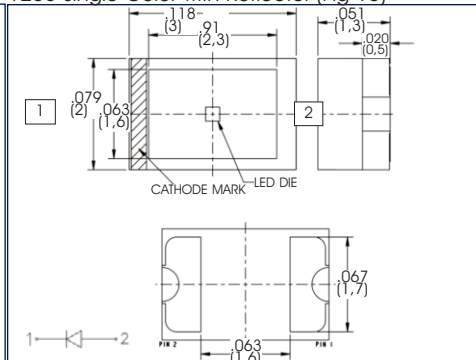
### 1206 Single Color (Fig 8)



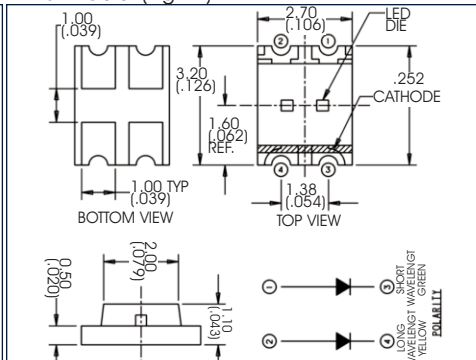
### 1206 Single Color with Lens (Fig 9)



1208 Single Color with Reflector (Fig 10)



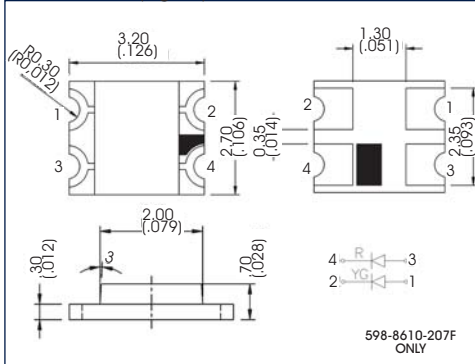
1210 Bi-Color (Fig 11)



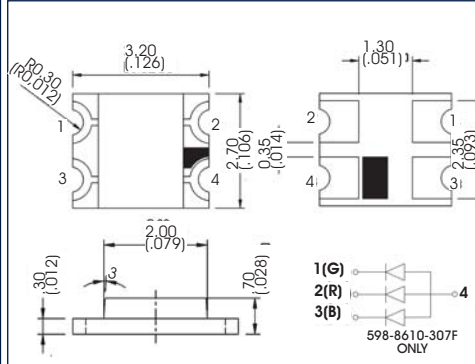
## Drawings

### Micro LED® SMD LED (cont.)

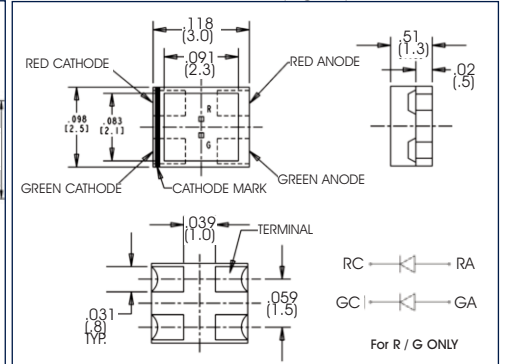
1210 Bi-Color (Fig 12)



1210 Tri-Color (Fig 13)

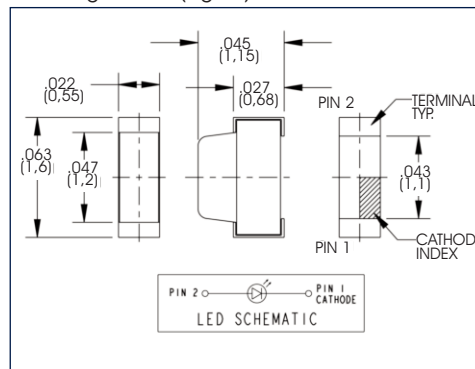


1210 Bi-Color with Reflector (Fig 14)

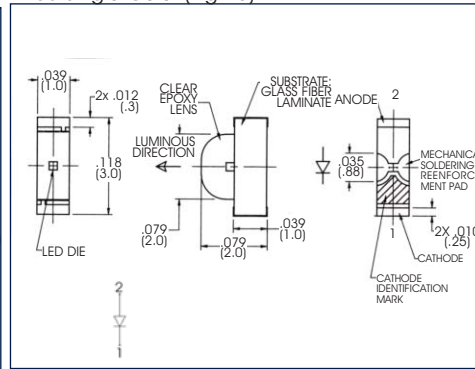


## Right Angle

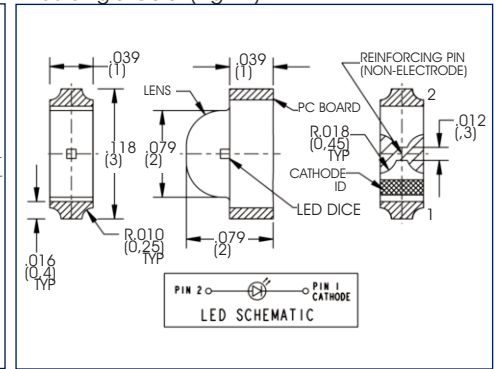
0605 Single Color (Fig 15)



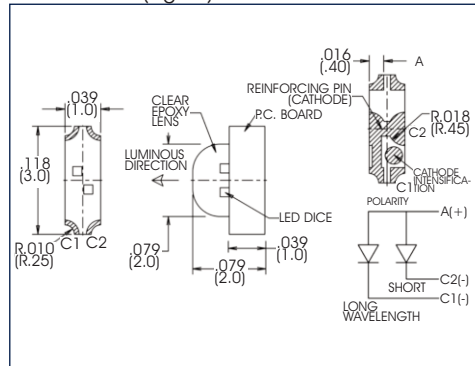
1208 Single Color (Fig 16)



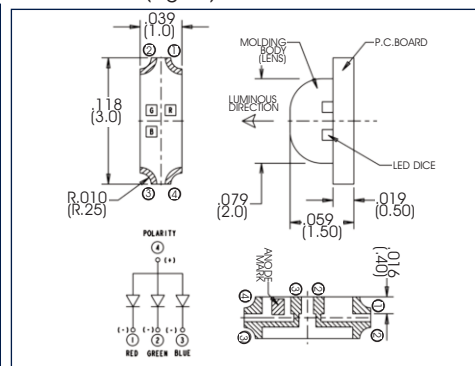
1208 Single Color (Fig 17)



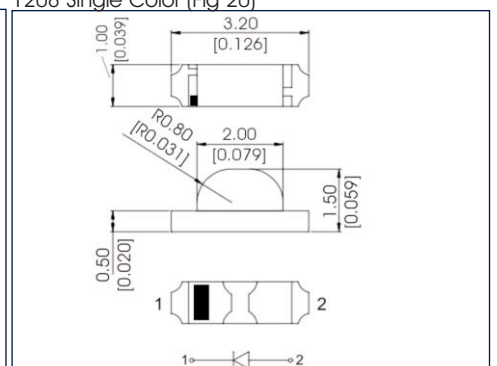
1208 Bi-Color (Fig 18)



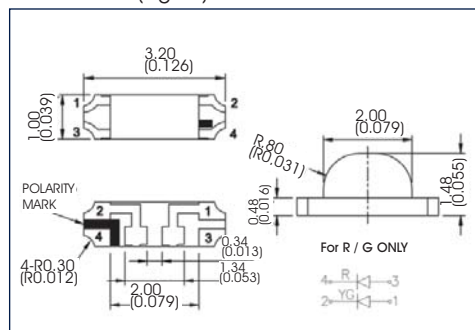
1208 Tri-Color (Fig 19)



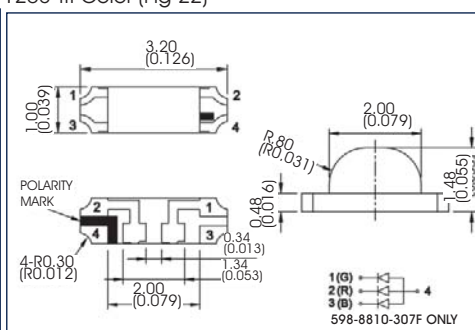
1208 Single Color (Fig 20)



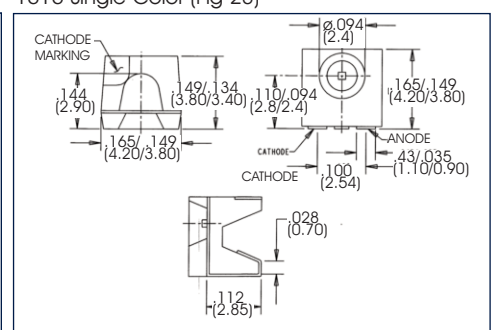
1208 Bi-Color (Fig 21)



1208 Tri-Color (Fig 22)



1616 Single Color (Fig 23)

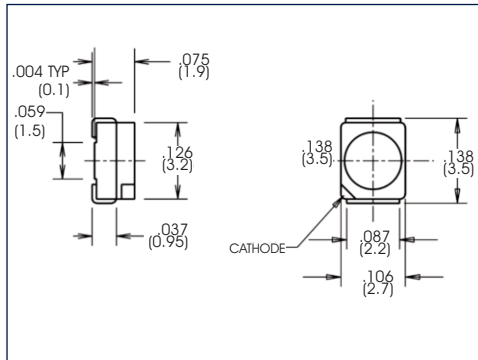




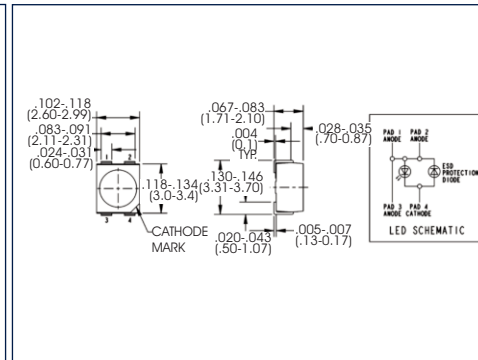
# Drawings

## PLCC

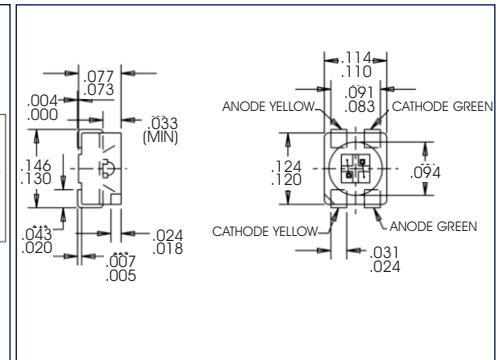
PLCC-2 Single Color (Fig 24)



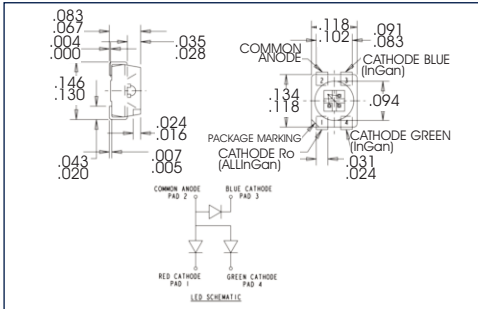
PLCC-4 Single Color (Fig 25)



PLCC-4 Bi-Color (Fig 26)

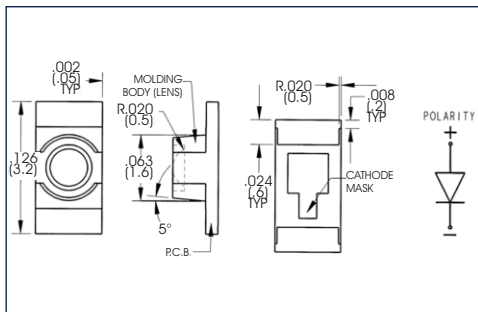


PLCC-4 Tri-Color (Fig 27)

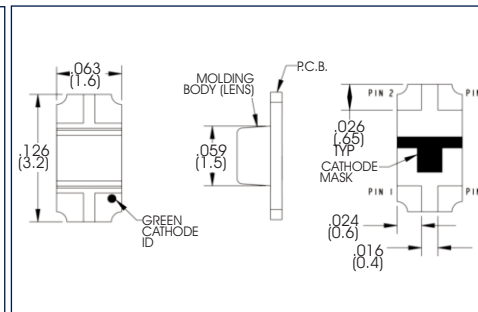


## Reverse Mount

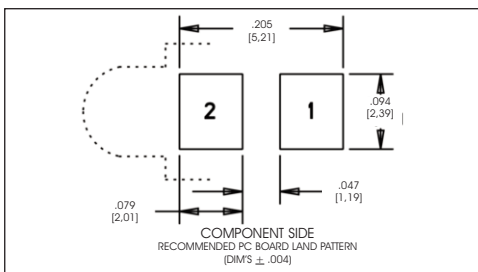
1206 Single Color (Fig 28)



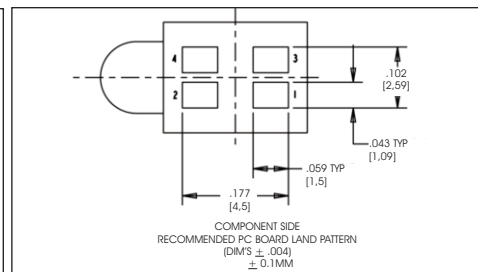
1206 Bi-Color (Fig 29)



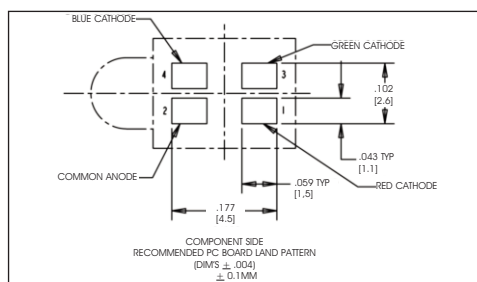
## 591 Prism® Color Pad Layouts (Page 3)



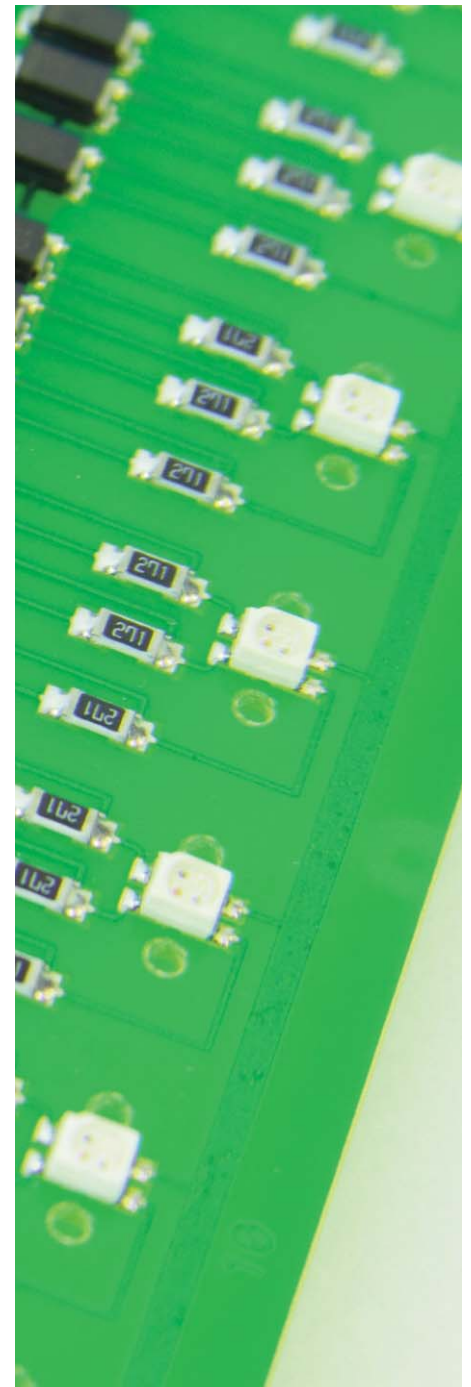
Prism Single Color Pad Layout



Prism Bi Color Pad Layout



Prism Tri Color Pad Layout







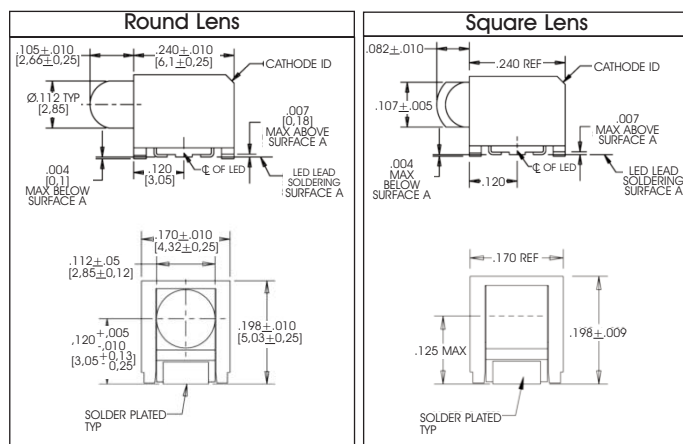
## 2mA Low Current Prism® CBI®

### Order Code

5 9 1 - 2 X 04 - X X X F

Color      Lens Type      RoHS Compliant  
Package Options

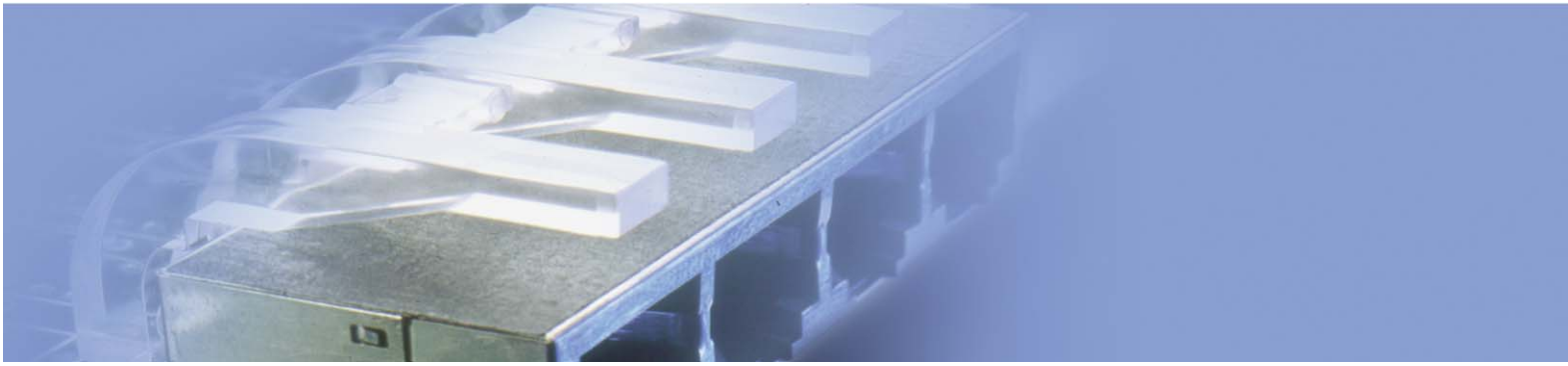
| Color |        | Lens Type |        | Packaging Type |                         |
|-------|--------|-----------|--------|----------------|-------------------------|
| 0     | Red    | 0         | Round  | 02             | 20 piece strip          |
| 3     | Green  | 1         | Square | 07             | 7" Reel dia. / 400pcs   |
| 4     | Yellow |           |        | 13             | 13" Reel dia. / 1600pcs |
| 5     | Orange |           |        |                |                         |



## Low Current Surface Mount LED



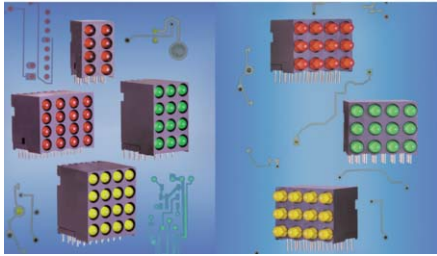
| Low Current SMT LEDs                                                    | Dialight Part Number | Color  | Material  | Dom. λ Typ. (nm) | Intensity Typ. (mcd) | Forward Voltage Typ. (V) | Viewing Angle | Height | Test Current (mA) | Fig | Type         |
|-------------------------------------------------------------------------|----------------------|--------|-----------|------------------|----------------------|--------------------------|---------------|--------|-------------------|-----|--------------|
| PLCC-2 Series Package with Reflector (3.5mm X 2.8mm X Height )          |                      |        |           |                  |                      |                          |               |        |                   |     |              |
|                                                                         | 597-3008-207F        | Red    | InGaAlP   | 630              | 12.6                 | 1.8                      | 120           | 1.9    | 2mA               | 23  | Single Color |
|                                                                         | 597-3208-207F        | Orange | InGaAlP   | 606              | 19.6                 | 1.8                      | 120           | 1.9    | 2mA               | 23  | Single Color |
|                                                                         | 597-3308-207F        | Green  | InGaAlP   | 570              | 6.3                  | 1.8                      | 120           | 1.9    | 2mA               | 23  | Single Color |
|                                                                         | 597-3408-207F        | Yellow | InGaAlP   | 587              | 15.7                 | 1.8                      | 120           | 1.9    | 2mA               | 23  | Single Color |
| Right Angle - 1616 Series Package with Reflector ( 4mm X 4mm X Height ) |                      |        |           |                  |                      |                          |               |        |                   |     |              |
|                                                                         | 597-2001-213F        | Red    | Gap/GaAsP | 630              | 7.8                  | 1.8                      | 120           | 3.6    | 2mA               | 22  | Single Color |
|                                                                         | 597-2301-213F        | Green  | GaP/GaP   | 570              | 5.6                  | 1.8                      | 120           | 3.6    | 2mA               | 22  | Single Color |
|                                                                         | 597-2401-213F        | Yellow | Gap/GaAsP | 587              | 14                   | 1.8                      | 120           | 3.6    | 2mA               | 22  | Single Color |
| Reverse Mount - 1206 Series Package (3.2mm X 1.6 X Height)              |                      |        |           |                  |                      |                          |               |        |                   |     |              |
|                                                                         | 597-6901-607F        | White  | InGaN     | x .304,y.301     | 70                   | 3                        | 70            | 1.1    | 5ma               | 27  | Single Color |



## Other Opto Electronic Products Offered by Dialight

40 Years of LED Experience

### Through Hole CBI® Circuit Board Indicators



- ▷ Housed LEDs in variety of configurations including:  
Right angle, vertical & horizontal ganged arrays in single bi, tri, and quad blocks
- ▷ 2mm, 3mm & 5mm
- ▷ Perfect for direct view or backlighting applications
- ▷ Variety of colors and LED types including:  
Single & bi-color, diffused, water-clear, tinted, super-bright, & high efficiency
- ▷ Over 2,500 variations, with custom LED placement available
- ▷ RoHS compliant

#### CBI® Selector Guide

[www.dialight.com/Assets/Brochures\\_And\\_Catalogs/Indication/CBI\\_Selector\\_Guide.pdf](http://www.dialight.com/Assets/Brochures_And_Catalogs/Indication/CBI_Selector_Guide.pdf)

### Based LED Bulbs 585 & 586 Series



- ▷ Replaces traditional miniature incandescent bulbs with rugged long-lasting and energy-efficient LEDs
- ▷ Design incorporates the most common base styles including:  
T 1 3/4 Midget Flange, Wedge Base and Bi-Pin, T 3 1/4 Mini-Bayonet and Mini-Screw, T2 Telephone Slide and 15 mm Bayonet
- ▷ Voltages from 6, 14 and 28 VDC, 6-36 VDC multi-voltage operation and 125 VAC with non-polarized versions available
- ▷ Colors include – red, green, yellow, blue and white
- ▷ Check *Dialight's Incandescent / Based LED Cross Reference* for our specific replacement part number

#### Based LED Selector Guide

[http://www.dialight.com/Assets/Brochures\\_And\\_Catalogs/Indication/Based\\_LED\\_selector\\_guide.pdf](http://www.dialight.com/Assets/Brochures_And_Catalogs/Indication/Based_LED_selector_guide.pdf)

### LED Panel Mount Indicators



- ▷ Incorporating the latest LED technology in a tamper-proof enclosure
- ▷ Variety of sizes from .156" – 1"
- ▷ Operating voltages 2-28 VDC, 125 and 230 VAC
- ▷ Some feature a water-tight seal to NEMA 4X / IP66
- ▷ Available in red, green, yellow, orange, blue, cyan and white
- ▷ 556 series is UL recognized, Class 1, Div. II certified versions available
- ▷ Relampable Data Lamp series is available
- ▷ Most use lock washer and nut for secure mounting

#### LED Panel Mount Indicator Selector Guide

[www.dialight.com/Assets/Brochures\\_And\\_Catalogs/Indication/VER-5x0x.pdf](http://www.dialight.com/Assets/Brochures_And_Catalogs/Indication/VER-5x0x.pdf)

### Optopipe® Light Pipes for use with Micro LED® SMD



- ▷ Light pipes act as conduit for directing light from SMD to viewing angles
- ▷ Right angle and vertical available in almost 200 sizes and shapes
- ▷ Provides ESD protection
- ▷ Allows edge lighting over and around a variety of components including SFP assemblies and RJ45 jacks
- ▷ UL 94V0
- ▷ Standard and custom available
- ▷ RoHS compliant

#### Optopipe® Light Pipes Selector Guide

[www.dialight.com/Assets/Brochures\\_And\\_Catalogs/Indication/Lightpipe\\_Selector\\_Guide.pdf](http://www.dialight.com/Assets/Brochures_And_Catalogs/Indication/Lightpipe_Selector_Guide.pdf)



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Dialight:

[591-3001-013F](#) [598-8020-107F](#) [598-8240-107F](#) [598-8250-107F](#) [598-8260-107F](#) [598-8540-207F](#) [598-8560-207F](#)  
[598-8720-307F](#) [598-8610-307F](#) [598-8210-107F](#) [598-8621-207F](#) [598-8181-107F](#) [598-8640-207F](#) [598-8010-107F](#)  
[598-8660-207F](#) [598-8710-307F](#) [598-8610-207F](#) [598-8170-107F](#) [598-8160-107F](#) [598-8150-107F](#) [598-8140-107F](#)  
[598-8130-107F](#) [598-8120-107F](#) [598-8110-107F](#) [598-8230-107F](#) [598-8220-107F](#) [598-8081-107F](#) [598-8070-107F](#)  
[598-8060-107F](#) [598-8050-107F](#) [598-8040-107F](#) [598-8030-107F](#) [598-8191-107F](#) [598-8091-107F](#) [598-8410-207CF](#)  
[598-8291-107F](#) [598-8281-107F](#) [598-8430-207CF](#) [598-8440-207CF](#) [598-8450-207CF](#) [598-8460-207CF](#) [598-8510-](#)  
[207F](#) [598-8520-207F](#) [598-8530-207F](#) [598-8740-307F](#) [598-8810-307F](#) [598-8820-307F](#) [598-8840-307F](#) [598-8270-](#)  
[107F](#) [598-8920-307F](#) [598-8940-307F](#) [591-2001-013F](#) [591-2101-013F](#) [591-3001-113F](#) [591-3001-007F](#) [591-2401-](#)  
[013F](#) [591-3001-107F](#) [591-2301-013F](#) [591-2301-007F](#) [597-3401-407F](#) [597-3111-407F](#) [597-2001-213F](#) [597-3212-](#)  
[407F](#) [597-5112-407F](#) [597-7701-207F](#) [597-3001-207F](#) [597-5411-407F](#) [597-2111-407F](#) [597-2301-213F](#) [597-7721-](#)  
[207F](#) [597-2201-407F](#) [597-3301-207F](#) [597-2401-213F](#) [597-5412-407F](#) [597-3311-407F](#) [597-3401-207F](#) [597-5111-](#)  
[407F](#) [597-3222-407F](#) [597-5312-407F](#) [597-5311-407F](#) [597-2311-407F](#) [597-5004-407F](#) [597-3302-602](#) [591-2001-](#)  
[102F](#) [591-2401-102F](#) [591-2001-007F](#) [597-3201-407F](#) [597-5203-407F](#) [591-2001-113F](#) [591-3101-113F](#) [591-2601-](#)  
[002F](#) [597-3211-207F](#) [597-3607-607F](#) [591-2601-013F](#) [597-3326-607F](#) [591-2201-013F](#) [591-2601-102F](#) [591-3501-](#)  
[107F](#) [591-2004-107F](#) [591-2304-007F](#)