



## 559 Series Snap-in LED - .250" Mounting Hole Panel Mount Indicators

### Features & Benefits

- RoHS compliant
- Long life - typically 100K hours
- Low power consumption - uses up to 90% less energy than an incandescent indicator
- Front panel snap-in mounting requires no additional hardware
- No heat generated
- Resistant to shock and vibration
- Available in both 2 or 3 bicolor leaded versions
- Termination - straight terminals for wire wrapping or lead wire for soldering or optional terminals
- Three leaded bicolor version allows for additional color variations
- Available with PVC-free lead wires



### Application

Dialight's 559 series LED panel mount indicator is available with a variety of LEDs including AlInGaP and InGaN technology for high brightness applications, bicolor and integral resistors. These indicators are designed for a variety of applications such as:

- Fan tray assemblies
- Datacenter Infrastructure (Servers and Storage)
- Next-Gen Wireless Infrastructure
- Electronic Test & Measurement Instruments
- Communications Testing Equipment
- Process controls
- Automation
- Medical Equipment
- Handheld devices

### Mechanical Information

Mounting Hole Size: 0.249 - 0.252" (6.32 - 6.40 mm)

Panel Thickness: 0.031 - 0.062" (.787 - 1.57 mm)

### Electrical Specifications

Operating Voltage: 1.6 - 2.3 VDC typical (current limiting resistor required)  
5 VDC typical (resistor not required)  
12 VDC typical (resistor not required)  
24 VDC typical (resistor not required)

Operating Temp: See table

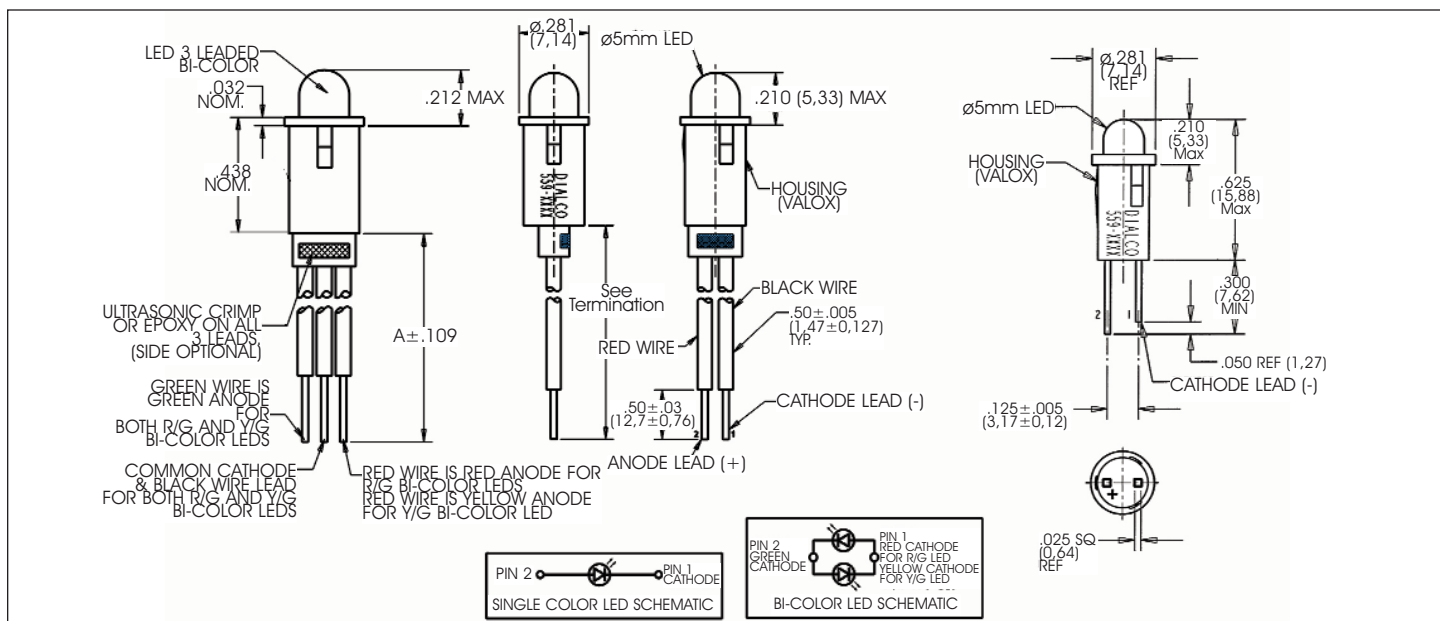
Storage Temp: (-67°F to +212°F) -55°C to +100°C

Electrical connection: Straight terminals for wire wrapping or either 6 or 14 inch 24 AWG lead wire

Leads: Straight leads  
2 leads  
3 leads - common cathode

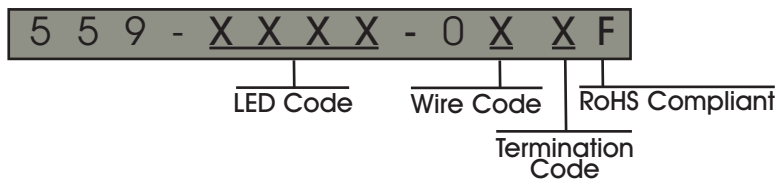
### Construction

Housing: Black housing material meets: UL94V-0 and enhances LED contrast



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## Ordering Information



| Wire Code | Wire Type | Termination Code | Termination Type      |
|-----------|-----------|------------------|-----------------------|
| 0         | Standard  | 1                | Straight Terminals    |
| 2         | PVC Free  | 3                | 24 AWG 6" wire leads  |
|           |           | 7                | 24 AWG 14" wire leads |

| LED Code | Color        | Peak Wavelength (nm) | Intensity Typ. (mcd) | If Typ. (mA) | Vf Typ. (V) | Viewing Angle | Max DC Forward Current (mA) | Type                    | Operating Temp  |
|----------|--------------|----------------------|----------------------|--------------|-------------|---------------|-----------------------------|-------------------------|-----------------|
| 5501     | Red          | 635                  | 125                  | 20           | 2.2         | 24            | 30                          | Non-Tinted Non-Diffused | -55°C to +100°C |
| 5601     | Green        | 565                  | 120                  | 20           | 2.3         | 24            | 30                          | Non-Tinted Non-Diffused | -20°C to +100°C |
| 5701     | Yellow       | 583                  | 140                  | 20           | 2.1         | 24            | 20                          | Non-Tinted Non-Diffused | -55°C to +100°C |
| 5801     | Orange       | 605                  | 90                   | 20           | 2.2         | 20            | 50                          | Non-Tinted Non-Diffused | -30°C to +85°C  |
| 5901     | Yellow       | 592                  | 3100                 | 20           | 2           | 15            | 50                          | Non-Tinted Non-Diffused | -40°C to +100°C |
| 6001     | Blue         | 470                  | 1500                 | 20           | 3.6         | 30            | 30                          | Non-Tinted Non-Diffused | -30°C to +85°C  |
| 6101     | Red          | 635                  | 2100                 | 20           | 1.9         | 15            | 50                          | Non-Tinted Non-Diffused | -40°C to +100°C |
| 6201     | Green        | 525                  | 5000                 | 20           | 3.5         | 30            | 30                          | Non-Tinted Non-Diffused | -30°C to +85°C  |
| 6301     | Orange       | 609                  | 4000                 | 20           | 1.9         | 15            | 50                          | Non-Tinted Non-Diffused | -40°C to +100°C |
| 6401     | White        | X=.31<br>Y=.32       | 2500                 | 20           | 3.5         | 50            | 30                          | Non-Tinted Non-Diffused | -30°C to +85°C  |
| 1101     | Red          | 635                  | 2.3                  | 2            | 1.7         | 50            | 7                           | Low current Diffused    | -55°C to +100°C |
| 1201     | Yellow       | 583                  | 1.8                  | 2            | 1.9         | 50            | 7                           | Low current Diffused    | -55°C to +100°C |
| 1301     | Green        | 565                  | 1.8                  | 2            | 1.8         | 50            | 7                           | Low current Diffused    | -55°C to +100°C |
| 2101     | Red          | 650                  | 6.3                  | 10           | 2.2         | 50            | 20                          | Diffused                | -25°C to +85°C  |
| 2201     | Green        | 563                  | 10                   | 10           | 2.1         | 65            | 25                          | Diffused                | -25°C to +85°C  |
| 2301     | Yellow       | 585                  | 29 @10               | 10/20        | 2.1 @20     | 50            | 20                          | Diffused                | -55°C to +100°C |
| 2501     | Orange       | 600                  | 7                    | 10           | 1.9         | 60            | 30                          | Diffused                | -55°C to +100°C |
| 5101     | Red          | 650                  | 34                   | 20           | 2.1         | 50            | 25                          | Diffused                | -55°C to +100°C |
| 5201     | Green        | 563                  | 34                   | 20           | 2.2         | 50            | 25                          | Diffused                | -55°C to +100°C |
| 5301     | Yellow       | 585                  | 34                   | 20           | 2.2         | 50            | 25                          | Diffused                | -55°C to +100°C |
| 5401     | Orange       | 610                  | 34                   | 20           | 2.2         | 50            | 25                          | Diffused                | -20°C to +85°C  |
| 0102     | Red          | 635                  | 8                    | 10           | 5           | 60            | 7.5                         | 5V Integral Resistor    | -40°C to +85°C  |
| 0202     | Green        | 565                  | 8                    | 12           | 5           | 60            | 7.5                         | 5V Integral Resistor    | -20°C to +85°C  |
| 0302     | Yellow       | 583                  | 8                    | 10           | 5           | 60            | 7.5                         | 5V Integral Resistor    | -40°C to +85°C  |
| 0103     | Red          | 635                  | 8                    | 13           | 12          | 60            | 15                          | 12V Integral Resistor   | -55°C to +100°C |
| 0203     | Green        | 565                  | 8                    | 13           | 12          | 60            | 15                          | 12V Integral Resistor   | -20°C to +85°C  |
| 0303     | Yellow       | 583                  | 8                    | 13           | 12          | 60            | 15                          | 12V Integral Resistor   | -40°C to +85°C  |
| 5904     | Yellow       | 592                  | 3100                 | 20           | 2           | 15            | 50                          | 24V External Resistor   | -30°C to +85°C  |
| 6104     | Red          | 635                  | 2100                 | 20           | 20          | 15            | 50                          | 24V External Resistor   | -30°C to +85°C  |
| 6204     | Green        | 525                  | 5000                 | 20           | 3.5         | 30            | 50                          | 24V External Resistor   | -30°C to +85°C  |
| 3001     | Red/Green    | 660/565              | 90/40                | 20           | 1.8/2.1     | 60            | 40/30                       | 2 leaded Bi-color       | -55°C to +100°C |
| 3101     | Red/Green    | 660/565              | 90/40                | 20           | 1.8/2.1     | 60            | 40/30                       | 2 leaded Bi-color       | -55°C to +100°C |
| 3201     | Yellow/Green | 585/565              | 12.6/19              | 20           | 2.1/2.1     | 50            | 20/30                       | 2 leaded Bi-color       | -55°C to +100°C |
| 3501     | Red/Green    | 635/565              | 5.0/8.0              | 10           | 2.1/2.3     | 65            | 30                          | 3 leaded Bi-color       | -20°C to +85°C  |
| 3601     | Yellow/Green | 583/565              | 20/20                | 10           | 1.6/1.6     | 65            | 30                          | 3 leaded Bi-color       | -20°C to +85°C  |

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