

Dialight



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

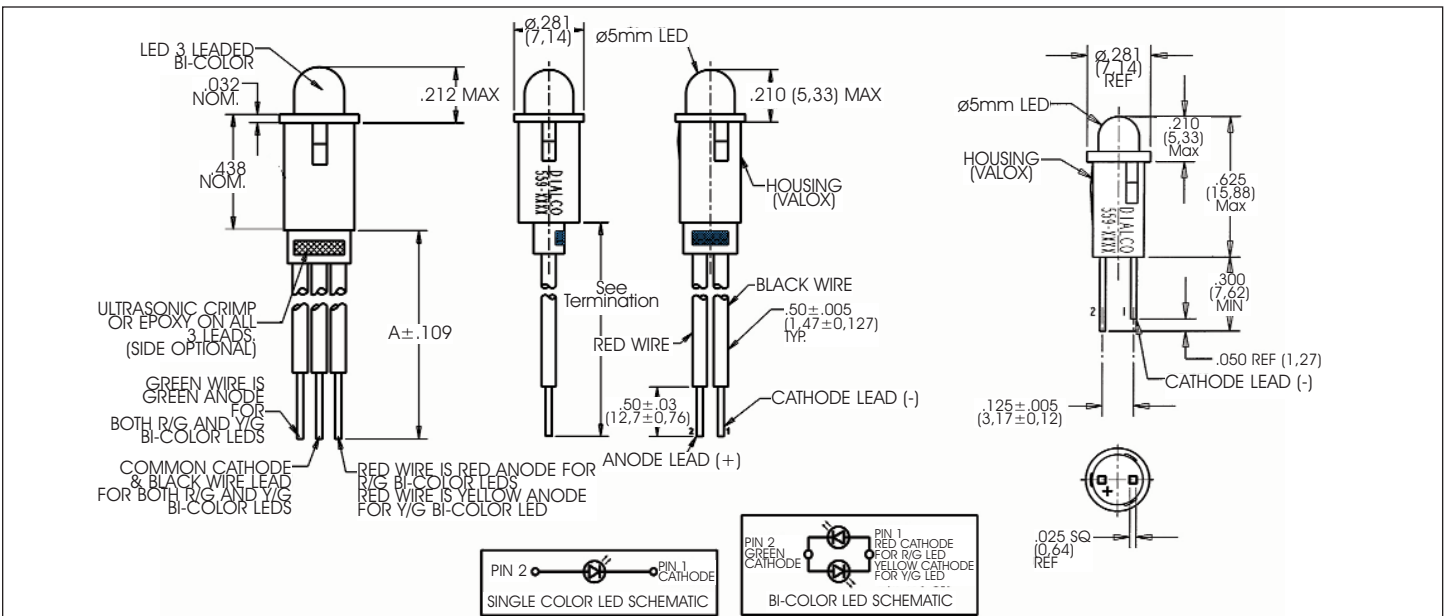
Storage Temp: (-67°F to +212°F) -55°C to +100°C

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

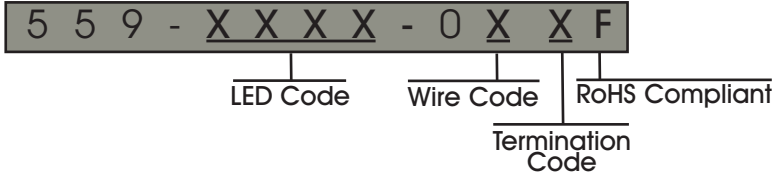
Construction

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 | Yellow | 565 | 120 | 20 | 2.3 | 24 | 30 | Non-Tinted Non-Diffused | -20°C to +100°C |
| 5701 | Green | 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 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 | Yellow | 563 | 10 | 10 | 2.1 | 65 | 25 | Diffused | -25°C to +85°C |
| 2301 | Green | 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 | Yellow | 563 | 34 | 20 | 2.2 | 50 | 25 | Diffused | -55°C to +100°C |
| 5301 | Green | 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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