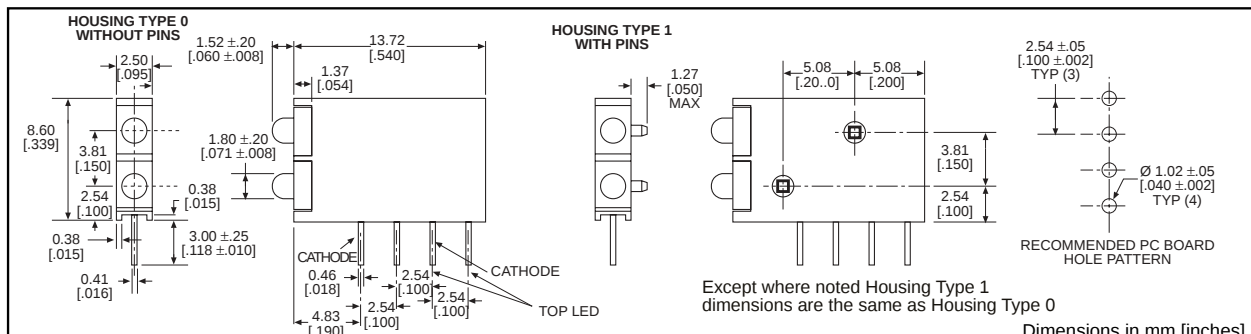


2mm

# LED CBI® Circuit Board Indicator (DIN 41494 Compatible), Bi-Level

**Dialight**

**571-01xx**

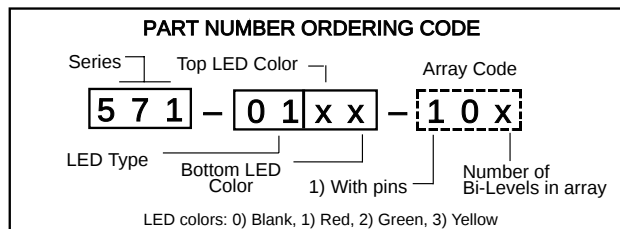


## Features

- Designed to accommodate DIN 41494
- Multiple CBIs form horizontal LED arrays on 2.54mm (0.100") center-lines
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.290 g
- Housing stand-offs facilitate PCB cleaning
- Solderability per MIL-STD-202F, method 208F
- LEDs are safe for direct viewing per IEC 825-1, EN-60825-1

## Tolerance note: As noted, otherwise:

- LED Protrusion:  $\pm 0.04$  mm [ $\pm 0.016$ ]
- CBI Housing:  $\pm 0.02$  mm [ $\pm 0.008$ ]



-10x Suffix required only when ordering single units with pins or arrays

## PART NO. WITHOUT PINS

## COLOR\*

|          |               |
|----------|---------------|
| 571-0111 | Red-Red       |
| 571-0112 | Red-Green     |
| 571-0122 | Green-Green   |
| 571-0132 | Yellow-Green  |
| 571-0133 | Yellow-Yellow |

\* Top-Bottom LED

## PART NO. WITH PINS

## COLOR\*

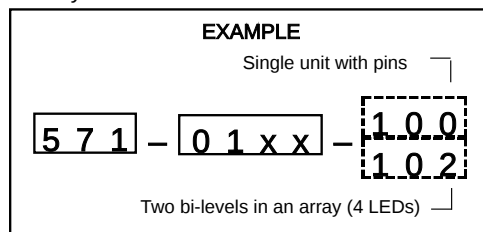
|              |               |
|--------------|---------------|
| 571-0111-100 | Red-Red       |
| 571-0112-100 | Red-Green     |
| 571-0122-100 | Green-Green   |
| 571-0132-100 | Yellow-Green  |
| 571-0133-100 | Yellow-Yellow |

\* Top-Bottom LED

Arrays available. See Part Number ordering code.

## Custom Combinations

- Contact factory for information on custom color combinations.



## Typical Operating Characteristics ( $T_A = 25^\circ\text{C}$ )

See LED data sheet for additional information

### GENERAL PURPOSE

See Page 3-17 and 3-18 for Reference Only LED Drive Circuit Examples

See Page 3-20 for Pin Out

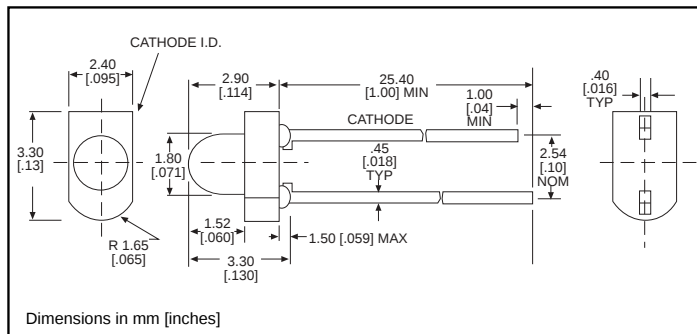
| Part Number | Color  | Peak Wavelength nm | $I_V^*$ mcd | $V_F^{**}$ Volts | Viewing Angle $2\theta_{1/2}$ | LED Data sheet | Page # |
|-------------|--------|--------------------|-------------|------------------|-------------------------------|----------------|--------|
| 571-01xx    | Red    | 635                | 12.6        | 2                | 38°                           | 521-9630       | 3-13   |
|             | Green  | 565                | 8.7         | 2.1              | 38°                           | 521-9632       | 3-13   |
|             | Yellow | 585                | 12.6        | 2.1              | 38°                           | 521-9631       | 3-13   |

\*  $I_F = 10\text{mA}$  \*\*  $I_F = 20\text{mA}$

# 2mm Discrete LED Diffused

# Dialight

## 521-9630, -9631, -9632



### PART NO.

521-9630

521-9631

521-9632

### COLOR

Red

Yellow

Green

3

### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

|                                         | Red<br>-9630                       | Yellow<br>-9631 | Green<br>-9632 |
|-----------------------------------------|------------------------------------|-----------------|----------------|
| Power Dissipation (mW)                  | 100                                | 60              | 100            |
| Forward Current (mA)                    | 30                                 | 20              | 30             |
| Derating (mA/°C) From 25°C              | .4                                 | .25             | .4             |
| Peak Current (mA)<br>Pulse width = 10μs | 120                                | 80              | 120            |
| Operating Temperature (°C)              | -55/+100                           | -55/+100        | -55/+100       |
| Storage Temperature (°C)                | -55/+100                           | -55/+100        | -55/+100       |
| Soldering Temperature                   | 260°C, 5 seconds, 1.6 mm from case |                 |                |

### OPERATING CHARACTERISTICS (T<sub>A</sub>=25°C)

|                                            |         | Red<br>-9630 | Yellow<br>-9631 | Green<br>-9632 |
|--------------------------------------------|---------|--------------|-----------------|----------------|
| Luminous Intensity (mcd)                   | Min.    | 3.7          | 3.7             | 2.5            |
| I <sub>F</sub> =10mA                       | Typical | 12.6         | 12.6            | 8.7            |
| Peak Wavelength (nm)                       | Typical | 635          | 585             | 565            |
| λ Peak                                     |         |              |                 |                |
| Viewing Angle (2θ <sub>1/2</sub> )         | Typical | 38°          | 38°             | 38°            |
| Forward Voltage (V)                        | Typical | 2            | 2.1             | 2.1            |
| I <sub>F</sub> =20mA                       | Max.    | 2.8          | 2.8             | 2.8            |
| Reverse Voltage (V), I <sub>R</sub> =100μA | Min.    | 5            | 5               | 5              |

Θ<sub>1/2</sub> is the off axis angle at which the luminous intensity is half the axial luminous intensity