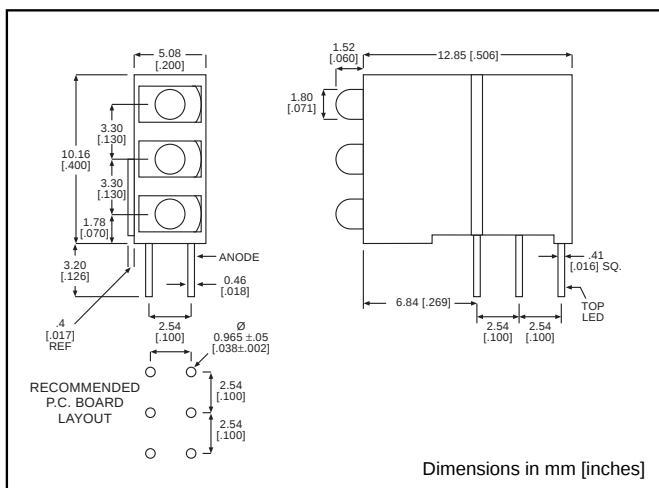


# LED CBI® Circuit Board Indicator (DIN 41494 Compatible), Tri-Level

**Dialight**

**570-0100-xxx**



## PART NO.

## COLOR\*

570-0100-111

Red-Red-Red

570-0100-132

Red-Yellow-Green

570-0100-222

Green-Green-Green

570-0100-333

Yellow-Yellow-Yellow

\* Top-Middle-Bottom LED

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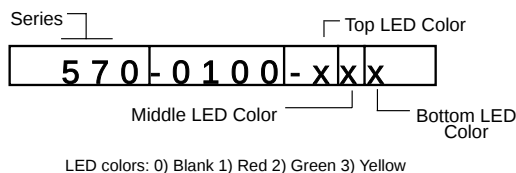
## Features

- Designed to accommodate DIN 41494
- Multiple CBIs form horizontal LED arrays on 5.08mm (0.200") center-lines
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 29%
- Polymer content: PBT, 0.595 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

## Custom Combinations

- Contact factory for information on custom color combinations.

### EXAMPLE OF PART NUMBER ORDERING CODE



## Tolerance note: As noted, otherwise:

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

## 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 3-19 for Pin Out

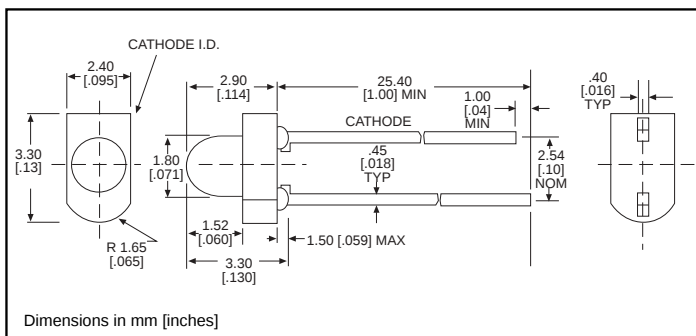
| Part Number  | Color  | Peak Wavelength nm | $I_V^*$ mcd | $V_F^{**}$ Volts | Viewing Angle $2\theta_{1/2}$ | LED Data sheet | Page # |
|--------------|--------|--------------------|-------------|------------------|-------------------------------|----------------|--------|
| 570-0100-xxx | Red    | 635                | 12.6        | 2                | $38^\circ$                    | 521-9630       | 3-13   |
|              | Green  | 565                | 8.7         | 2.1              | $38^\circ$                    | 521-9632       | 3-13   |
|              | Yellow | 585                | 12.6        | 2.1              | $38^\circ$                    | 521-9631       | 3-13   |

\*  $I_F = 10$  mA \*\* $I_F = 20$  mA

2mm Discrete LED  
Diffused

Dialight

521-9630, -9631, -9632



**PART NO.**

521-9630

521-9631

521-9632

**COLOR**

Red

Yellow

Green

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**ABSOLUTE MAXIMUM RATINGS** ( $T_A=25^\circ\text{C}$ )

|                                         | 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** ( $T_A=25^\circ\text{C}$ )

|                                           |         | Red<br>-9630 | Yellow<br>-9631 | Green<br>-9632 |
|-------------------------------------------|---------|--------------|-----------------|----------------|
| Luminous Intensity (mcd)                  | Min.    | 3.7          | 3.7             | 2.5            |
|                                           | Typical | 12.6         | 12.6            | 8.7            |
| Peak Wavelength (nm)                      | Typical | 635          | 585             | 565            |
| $\lambda_{\text{Peak}}$                   |         |              |                 |                |
| Viewing Angle ( $2\theta_{1/2}$ )         | Typical | 38°          | 38°             | 38°            |
| Forward Voltage (V)                       | Typical | 2            | 2.1             | 2.1            |
|                                           | Max.    | 2.8          | 2.8             | 2.8            |
| Reverse Voltage (V), $I_R=100\mu\text{A}$ | Min.    | 5            | 5               | 5              |

$\theta_{1/2}$  is the off axis angle at which the luminous intensity is half the axial luminous intensity