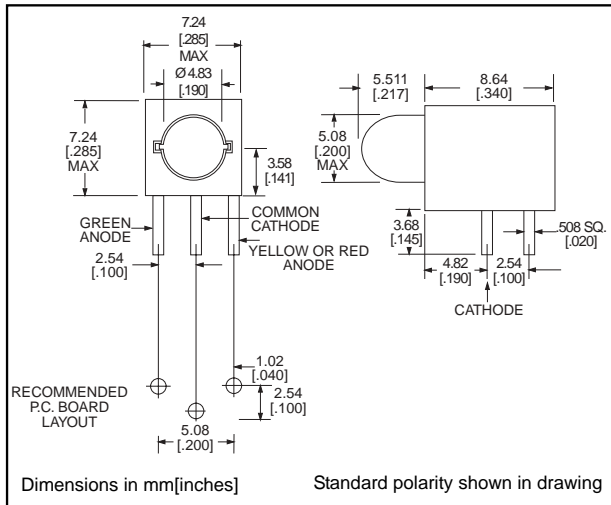


5mm

LED CBI® Circuit Board Indicator 3 Leaded, Bi-Color, Common Cathode



550-3x05



PART NO.
550-3505
550-3605

COLOR
Red/Green
Yellow/Green

To order any of the 550-3x05 part numbers with Reverse Polarity (Green Anode Right; Yellow or Red Anode Left), please add -010 to the part numbers shown above. **NEW**

Features

- Common Cathode simplifies design, and the red/green LED provides yellow-orange as a third color
- Multiple CBIs form horizontal LED arrays on 7.24mm (0.285") center-lines.
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.462 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: ±0.04 mm [±0.016]
- CBI Housing: ±0.02mm[±0.008]

PART NUMBER ORDERING CODE

5 5 0 - 3 x 0 5 - 0 1 0

Reverse Polarity Option
1) Green Anode Right;
Yellow or Red Anode Left

-010 Ordering Code Suffix required ONLY for Reverse Polarity Option

Typical Operating Characteristics (T_A=25°C)

See LED data sheet for additional information

See page 6-55 and 6-56 for Reference Only LED Drive Circuit Examples. See page 6-57 for Pin Out

| Part Number | Color | Peak Wavelength nm | I _v mcd | V _F Volts | Test Current (mA) | Viewing Angle 2θ% | LED Data sheet | Page # |
|-------------|--------------|--------------------|--------------------|----------------------|-------------------|-------------------|----------------|--------|
| 550-3505 | Red/Green | 635/565 | 5/8 | 2.1/2.3 | 10 | 65° | 521-9450 | 6-45 |
| 550-3605 | Yellow/Green | 583/565 | 5/8 | 2.1/2.1 | 10 | 65° | 521-9460 | 6-45 |

**5mm Discrete LED
Bi-Color
3 Ledged, Non-Tinted, Diffused**



521-9450, -9460



| PART NO. | LED COLOR |
|----------|-------------------------|
| 521-9450 | Red/Green |
| 521-9460 | Yellow/Green NEW |

MOUNTING CLIP: 515-0004
located on page 6-48

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

| | Red/Green -9450 | Yellow/Green -9460 |
|---|------------------------------------|------------------------------|
| Power Dissipation (mW) | 135/135 | 135/135 |
| Forward Current (mA) | 25/25 | 25/25 |
| Derating (mA/°C) From 50°C 1. From 40°C | .5/.5 | .5/.5 |
| Peak Current (mA) | 90/90 | 90/90 |
| Pulse width = 10 μs | | |
| Operating Temperature (°C) | -20/+85 | -20/+85 |
| Storage Temperature (°C) | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | |

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)

| | | Red/Green -9450 | Yellow/Green -9460 |
|-----------------------------------|---------|---------------------------|------------------------------|
| Luminous Intensity (mcd) | Min. | 2.1/4.2 | 2.1/4.2 |
| $I_F=10\text{mA}$ | Typical | 5/8 | 5/8 |
| Peak Wavelength (nm) | Typical | 635/565 | 583/565 |
| λ_{Peak} | | | |
| Viewing Angle ($2\theta^{1/2}$) | Typical | 65° | 65° |
| Forward Voltage (V) | Typical | 2.1/2.3 | 2.1/2.1 |
| $I_F=10\text{mA}$ | Max. | 2.5/2.7 | 2.5/2.5 |

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

6