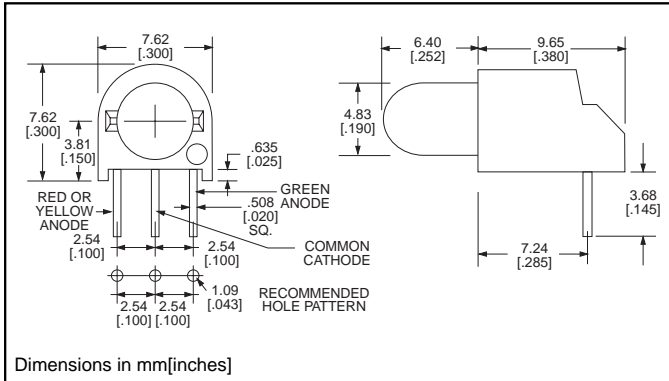


5mm

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



550-3x09



**PART NO.**

- 550-3509
- 550-3609

**COLOR**

- Red/Green
- Yellow/Green

To order any of the 550-3x09 part numbers with Reverse Polarity (Red or Yellow Anode Right; Green Anode Left), please add -010 to the part numbers shown above.



**Features**

- Common Cathode simplifies design, and the red/green LED provides yellow-orange as a third color
- Multiple CBIs form horizontal LED arrays on 7.62mm (0.300”) center-lines.
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.414 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 9 - 0 1 0

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

-010 Ordering Code Suffix required ONLY for Reverse Polarity Option

**Typical Operating Characteristics (T<sub>A</sub>=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 <sub>v</sub> mcd	V <sub>F</sub> Volts	Test Current (mA)	Viewing Angle 2θ%	LED Data sheet	Page #
550-3509	Red/Green	635/565	5/8	2.1/2.3	10	65°	521-9450	6-45
550-3609	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**



<u>PART NO.</u>	<u>LED COLOR</u>
521-9450	Red/Green
521-9460	Yellow/Green <b>NEW</b>

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

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

	Red/Green <b>-9450</b>	Yellow/Green <b>-9460</b>
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 $\mu\text{s}$		
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 <b>-9450</b>	Yellow/Green <b>-9460</b>
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
$\lambda_{\text{Peak}}$			
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**

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