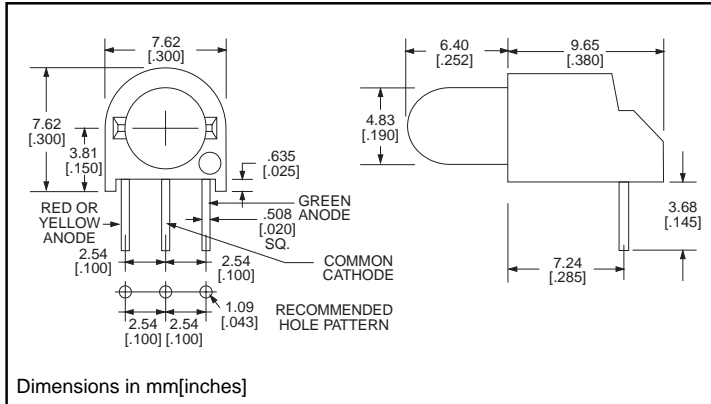


**5mm**  
**LED CBI® Circuit Board Indicator**  
**3 Leaded, Bi-Color, Common Cathode**



**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.

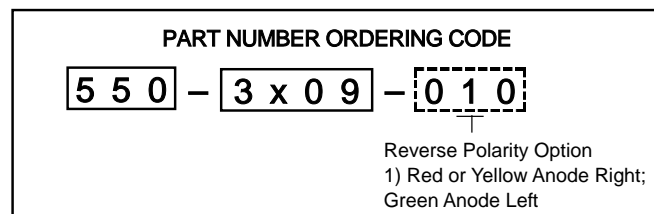


**Features**

- 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]



-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

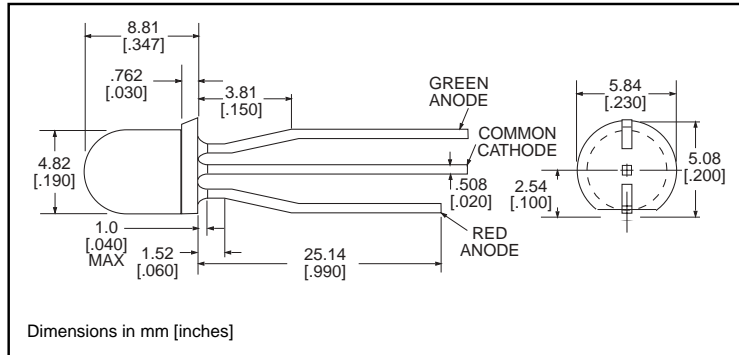
See page 6-55 and 6-56 for Reference Only LED Drive Circuit Examples. See page 6-57 for Pin Out

Part Number	Color	Peak Wavelength nm	I <sub>v</sub> mcd	V <sub>F</sub> Volts	Test Current (mA)	Viewing Angle 2θ <sub>½</sub>	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 Leded, Non-Tinted, Diffused**

**Dialight**

**521-9450, -9460**



PART NO.	LED COLOR
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/ $^\circ\text{C}$ ) From 50 $^\circ\text{C}$ 1. From 40 $^\circ\text{C}$	.5/.5	.5/.5
Peak Current (mA)	90/90	90/90
Pulse width = 10 $\mu\text{s}$		
Operating Temperature ( $^\circ\text{C}$ )	-20/+85	-20/+85
Storage Temperature ( $^\circ\text{C}$ )	-55/+100	-55/+100
Soldering Temperature	260 $^\circ\text{C}$ , 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
$\lambda$ Peak			
Viewing Angle ( $2\Theta^{1/2}$ )	Typical	65 $^\circ$	65 $^\circ$
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**