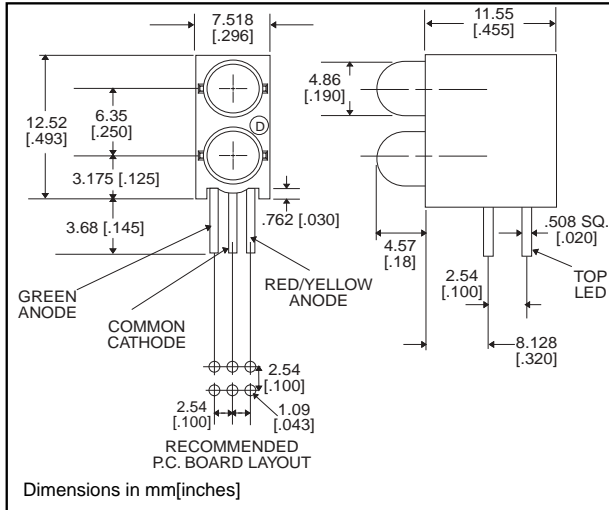


5mm

**LED CBI® Circuit Board Indicator**  
**3 Leaded, Bi-Color, Bi-Level**



**552-35xx**



**PART NO.**  
 552-3511  
 552-3544

**COLOR\***  
 Red/Green  
 Yellow/Green

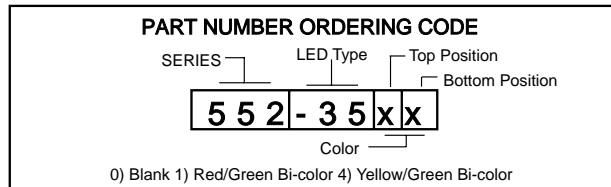
\* Top-Bottom LED

**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, 1.055 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 [ $\pm 0.008$ ]



**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 #
552-3511	Red/Green	635/565	5/8	2.1/2.3	10	65°	521-9450	6-45
552-3544	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 ( $2\theta^{\frac{1}{2}}$ )	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

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

**6**