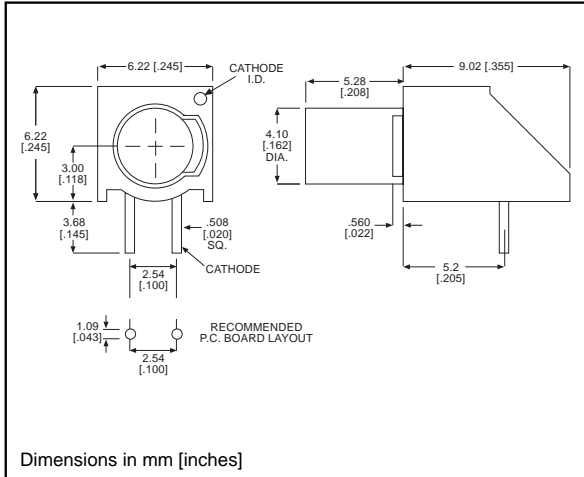


# 4mm Flat Top LED CBI® Circuit Board Indicator Sloped Back Housing

# Dialight

## 550-6x07



**PART NO.**  
550-6207  
550-6307  
550-6407

**COLOR**  
Green  
Yellow  
Red

### Features

- Multiple CBIs form horizontal LED arrays on 6.35mm (0.250") center-lines.
- Flat LED provides flush panel appearance and wide viewing angle
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.596 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
- Compatible with 552-60xx-200

### 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  
See Page 5-20 and 5-21 for Reference Only LED Drive Circuit Example  
See Page 5-22 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 #
550-6207	Green	565	12.6	2.1	20	150°	521-9708	5-19
550-6307	Yellow	585	8.7	2.1	20	150°	521-9707	5-19
550-6407	Red	630	8.7	2	20	145°	521-9706	5-19

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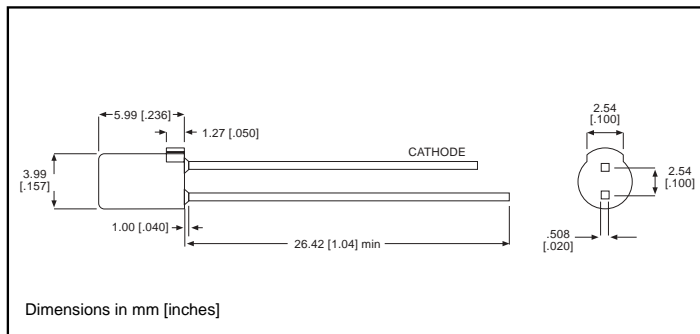
# 4mm Discrete LED

## Flat Top

## Tinted, Diffused

# Dialight

## 521-970x



### PART NO.

521-9706

521-9707

521-9708

### COLOR

Red

Yellow

Green

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

	Red <b>-9706</b>	Yellow <b>-9707</b>	Green <b>-9708</b>
Power Dissipation (mW)	100	60	100
Derating (mA/°C) From 50°C	.4	.25	.4
Forward Current (mA)	30	20	30
Peak Current (mA) <i>Pulse width = 100µs</i>	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		

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

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

		Red <b>-9706</b>	Yellow <b>-9707</b>	Green <b>-9708</b>
Luminous Intensity (mcd)	Min.	2.5	5.6	8.7
	Typical	8.7	8.7	12.6
Peak Wavelength (nm) $\lambda_{\text{Peak}}$	Typical	630	585	565
Viewing Angle ( $2\theta_{\frac{1}{2}}$ )	Typical	145°	150°	150°
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

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

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