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Jameco Part Number 1715201

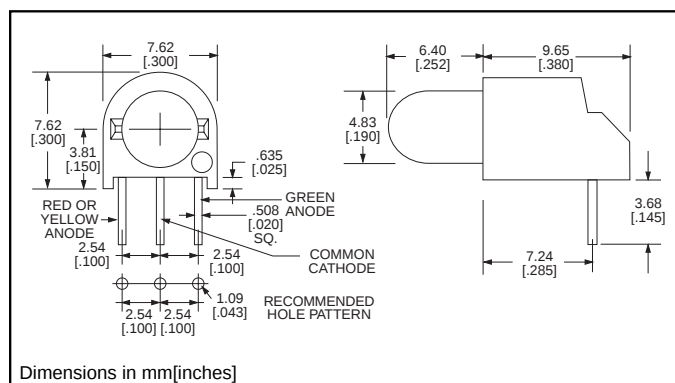
5mm

LED CBI® Circuit Board Indicator

3 Leaded, Bi-Color, Common Cathode

Dialight

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.

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 7.62mm (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: ± 0.02 mm [± 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 ($T_A=25^\circ\text{C}$)

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 2 $\theta_{\frac{1}{2}}$	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

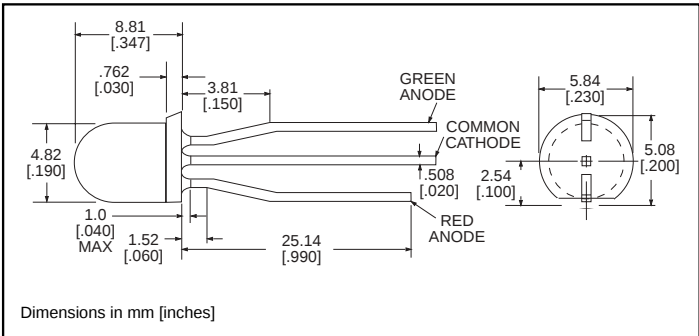
5mm Discrete LED

Bi-Color

3 Ledged, Non-Tinted, Diffused

Dialight

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	Yellow/Green
	-9450	-9460
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 μs		
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	Yellow/Green
		-9450	-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 ($2\theta^{\circ}$)	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

θ° is the off axis angle at which the luminous intensity is half the axial luminous intensity