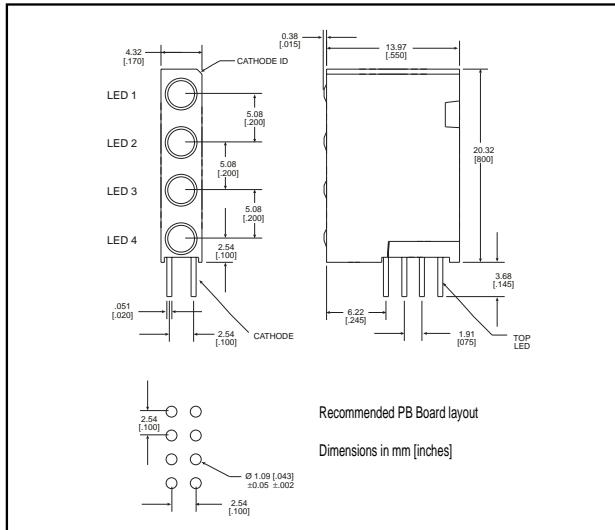


3mm LED CBI® Circuit Board Indicator Quad-Level For Backlighting

Dialight

568-221x-xxx



Features

- Extended housing and narrow viewing angle LEDs reduce light bleed
- Multiple CBIs form horizontal LED arrays on 4.45mm (0.175") center-lines.
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.959 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:
 - 551-xx02 Single
 - 553-22xx-100 Bi-Level
 - 564-2210-xxx Tri-Level

PART NO.

COLOR*

**HIGH EFFICIENCY, TINTED,
NON DIFFUSED**

568-2211-111

568-2212-222

568-2212-323

568-2213-232

Red-Red-Red-Red

Green-Green-Green-Green

Green-Yellow-Green-Yellow

Yellow-Green-Yellow-Green

* LED 1, LED 2, LED 3, LED 4.

PART NUMBER ORDERING CODE

COLORS: 0) Black 1) Red 2) Green 3) Yellow

Custom Combinations

- Contact factory for information on custom color combinations.

Tolerance note: As noted, otherwise:

- LED Protrusion: ± 0.04 mm [± 0.016]
- CBI Housing: ± 0.02 mm [± 0.008]

Typical Operating Characteristics @ TA=25°C

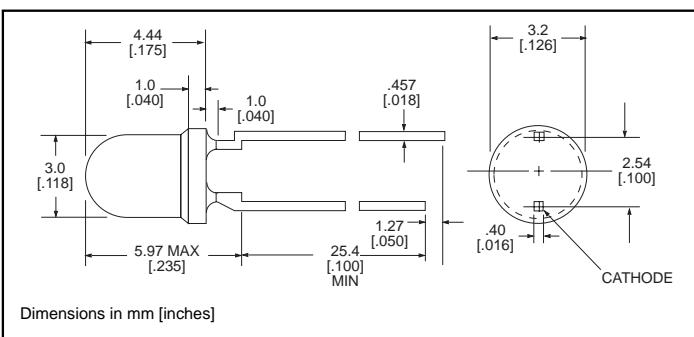
*See LED data sheet for additional information
See Pages 4-73 and 4-74 for LED Drive Circuit Examples
See Page 4-72 for Pin Out*

Part Number	Color	Peak Wavelength nm	IV mcd	V _F * Volts	Test Current (mA)	Viewing Angle 2θ%	LED Data sheet	Page #
568-221x-xxx	Red	635	29	2	10	45°	521-9432	4-61
	Green	565	50	2.1	10	45°	521-9430	4-61
	Yellow	585	20	2.1	10	45°	521-9431	4-61

* $I_F = 20mA$

3mm Discrete LED High Efficiency Tinted, Non-Diffused

Dialight
521-9430, -9431, -9432



<u>PART NO.</u>	<u>COLOR</u>
521-9430	Green
521-9431	Yellow
521-9432	Red

MOUNTING CLIP: 515-0006
located on page 4-65

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)	Green -9430	Yellow -9431	Red -9432
Power Dissipation (mW)	100	60	100
Forward Current (mA)	30	20	30
Derating (mA/ $^\circ\text{C}$) <i>From 50°C</i>	.4	.25	.4
Peak Current (mA) <i>Pulse width = 100μs</i>	120	80	120
Operating Temperature ($^\circ\text{C}$)	-55/+100	-55/+100	-55/+100
Storage Temperature ($^\circ\text{C}$)	-55/+100	-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 ($T_A=25^\circ\text{C}$)	Green -9430	Yellow -9431	Red -9432
Luminous Intensity (mcd) $I_F=10\text{mA}$	Min. Typical	32 50	8.7 29
Peak Wavelength (nm) λ Peak	Typical	565	585
Viewing Angle ($2\Theta_{1/2}$)	Typical	45°	45°
Forward Voltage (V) $I_F=20\text{mA}$	Typical Max.	2.1 2.8	2 2.8

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