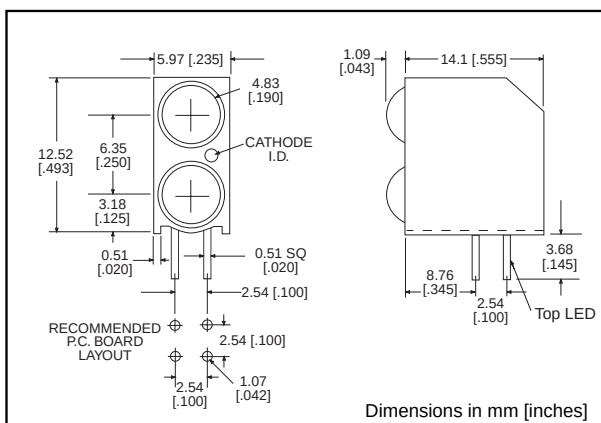


5mm 5V LED CBI® Circuit Board Indicator Bi-Level For Backlighting

Dialight

552-22xx-100



Standard Polarity shown in drawing: Cathode right

PART NO.

HIGH EFFICIENCY, TINTED,
NON DIFFUSED

552-2211-100

552-2222-100

552-2223-100

552-2232-100

552-2233-100

COLOR*

Red-Red

Green-Green

Green-Yellow

Yellow-Green

Yellow-Yellow

* Top-Bottom LED

Reverse Polarity (Cathode Left) option available.
See Part Number Ordering Code.

Features

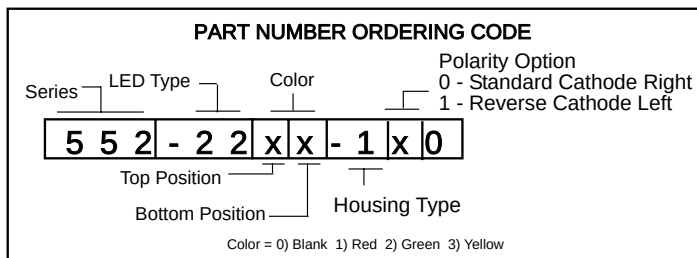
- Multiple CBIs form horizontal LED arrays on 6.35mm (0.250") center-lines.
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.845 g
- Housing stand-offs facilitate PCB cleaning
- Solderability per MIL-STD-202F, method 208F
- LEDs are safe for direct viewing 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]

Custom Combinations

- Contact factory for information on custom color combinations and ganged arrays



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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 6-58 for Pin Out

Color	Peak Wavelength nm	I_v mcd	V_F Volts	Test Current (mA)	Viewing Angle $2\theta_{1/2}$	LED Data sheet	Page #
Red	650	110	2.1	20	30°	5HN-9419	6-50
Green	565	110	2.2	20	30°	5HN-9420	6-50
Yellow	585	110	2.2	20	30°	5HN-9421	6-50

5mm
High Efficiency
Tinted, Non-Diffused

Dialight
5HN-XXXX

*** NOT A VALID PART
NUMBER. THIS SHEET IS FOR
REFERENCE ONLY.**

<u>TYPE</u>	<u>COLOR</u>
*5HN-9419	Red
*5HN-9420	Green
*5HN-9421	Yellow

ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)	Red -9419	Green -9420	Yellow -9421
Power Dissipation (mW)	75	75	75
Derating (mW/ $^{\circ}\text{C}$) From 50°	1.5	1.5	1.5
Forward Current (mA)	25	25	25
Peak Current (mA) Pulse Width = 1 μs	60	60	60
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°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 -9419	Green -9420	Yellow -9421
Luminous Intensity (mcd)	Min.	56	56	56
$I_F=20\text{mA}$	Typical	110	110	110
Peak Wavelength (nm) λ_{Peak}	Typical	650	565	565
Viewing Angle ($2\theta_{\frac{1}{2}}$)		30°	30°	30°
Forward Voltage (V) $I_F=20\text{mA}$	Typical Max	2.1 2.55	2.2 2.55	2.2 2.55
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