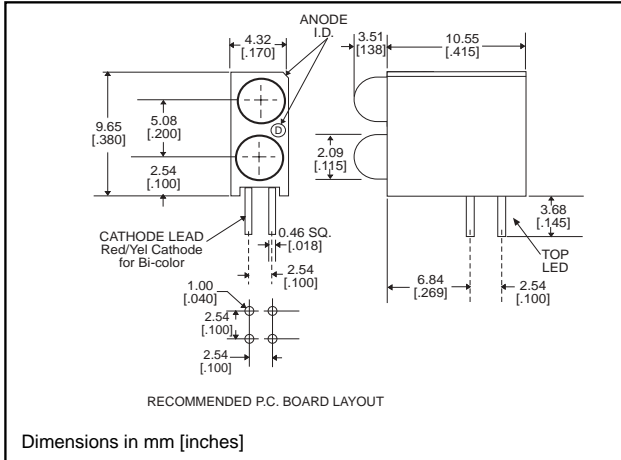


3mm

# LED CBI® Circuit Board Indicator (DIN 41494 Compatible), Narrow Bi-level

# Dialight

## 553-xxxx-200



Standard Polarity shown in drawing: Cathode left

### Features

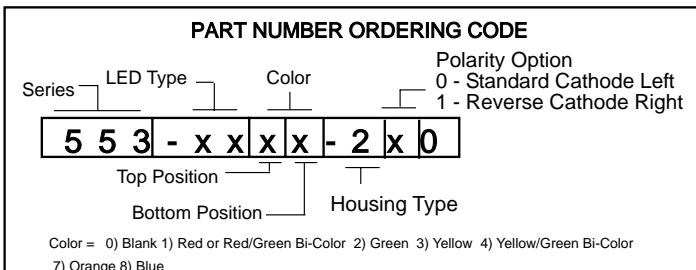
- Designed to accommodate DIN 41494
- Multiple CBIs form horizontal LED arrays on 5.08mm (0.200") center-lines. See page 4-41 and 4-42 for pre-assembled arrays
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.443 g
- Housing stand-offs facilitate PCB cleaning
- 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 [ $\pm 0.008$ ]

### Custom Combinations

- Contact factory for information on custom bi-level arrays and color combinations.



### PART NO.

#### HIGH EFFICIENCY - LED TYPE 01

- 553-0111-200
- 553-0122-200
- 553-0133-200
- 553-0177-200
- 553-0188-200

### COLOR\*

- Red
- Green
- Yellow
- Orange
- Blue<sup>3</sup>



#### LOW CURRENT - LED TYPE 02

- 553-0211-200
- 553-0222-200
- 553-0233-200

- Red
- Green
- Yellow

#### RESISTOR 5 VOLTS - LED TYPE 03

- 553-0311-200
- 553-0322-200
- 553-0333-200

- Red
- Green
- Yellow

#### BI-COLOR - LED TYPE 07

- 553-0711-200
- 553-0744-200

- Red/Green
- Yellow/Green

#### NON-DIFFUSED - LED TYPE 22

- 553-2211-200
- 553-2222-200
- 553-2233-200

- Red
- Green
- Yellow

\* Top-Bottom LED

### REVERSE POLARITY OPTION AVAILABLE

See Part Number Ordering Code below.



**ATTENTION**  
 OBSERVE PRECAUTIONS  
 FOR HANDLING  
 ELECTROSTATIC  
 SENSITIVE  
 DEVICES

# 553-xxxx-200

(DIN 41494 compatible)

## Typical Operating Characteristics ( $T_A=25^{\circ}\text{C}$ )

See LED data sheet for additional information  
See page 4-70 and 4-71 for Reference Only LED Drive Circuit Examples. See page 4-72 for Pin Out

### HIGH EFFICIENCY

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	$V_F$ Volts	Test Current (mA)	Viewing Angle $2\theta_{\%}$	LED Data sheet	Page #
553-0111-200	Red	635	10	2*	10	60°	521-9216	4-58
553-0122-200	Green	565	12.6	2.1*	10	60°	521-9210	4-58
553-0133-200	Yellow	585	10	2.1*	10	60°	521-9211	4-58
553-0177-200	Orange	600	7	2.2	10	60°	521-9498	4-58
553-0188-200	Blue	428	12	3.5	10	70°	521-9831	4-57

\*  $I_F = 20\text{mA}$

### LOW CURRENT

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	$V_F$ Volts	Test Current (mA)	Viewing Angle $2\theta_{\%}$	LED Data sheet	Page #
553-0211-200	Red	635	1.6	1.7	2	60°	521-9324	4-60
553-0222-200	Green	565	1.6	1.9	2	60°	521-9326	4-60
553-0233-200	Yellow	585	1.6	1.8	2	60°	521-9325	4-60

### INTEGRAL RESISTOR, 5 VOLTS

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	Test Voltage	Forward Current (mA)	Viewing Angle $2\theta_{\%}$	LED Data sheet	Page #
553-0311-200	Red	635	29	5	10	60°	521-9215	4-59
553-0322-200	Green	565	19	5	10	60°	521-9323	4-59
553-0333-200	Yellow	585	12.6	5	10	60°	521-9322	4-59

### BI-COLOR

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	$V_F$ Volts	Test Current (mA)	Viewing Angle $2\theta_{\%}$	LED Data sheet	Page #
553-0711-200	Red/Green	635/565	4.7/10	2/2.1	10	50°	521-9459	4-63
553-0744-200	Yellow/Green	585/565	4.3/6.3	2.1*/2.1*	10	80°	521-9478	4-62

\*  $I_F = 20\text{mA}$

### NON-DIFFUSED

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	$V_F$ Volts*	Test Current (mA)	Viewing Angle $2\theta_{\%}$	LED Data sheet	Page #
553-2211-200	Red	635	29	2	10	45°	521-9432	4-61
553-2222-200	Green	565	50	2.1	10	45°	521-9430	4-61
553-2233-200	Yellow	585	20	2.1	10	45°	521-9431	4-61

\*  $I_F = 20\text{mA}$

### CBI ARRAYS .200 PITCH

Dialight offers its Multiarray to reduce insertions and to assure indicator alignment. Multiarrays mount indicators on .200 centers. These assemblies are available in arrays of 2 to 6. See pages 4-41 and 4-42 for information. Call factory for information on .185 pitched arrays.

