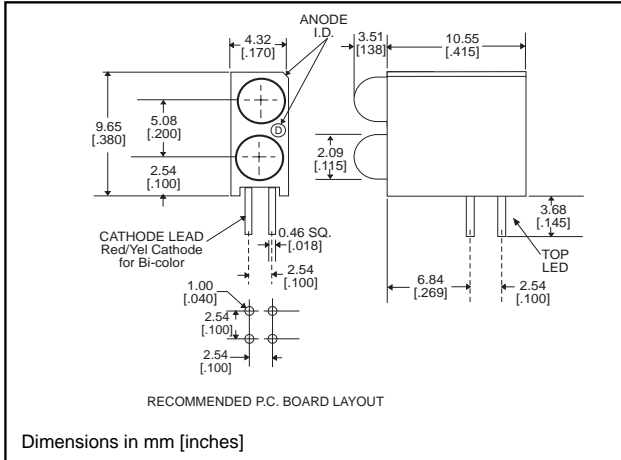


3mm

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

Dialight

553-xxxx-200



Standard Polarity shown in drawing: Cathode left

Features

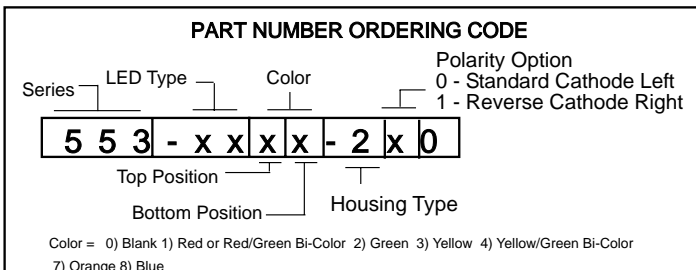
- Designed to accommodate DIN 41494
- Multiple CBIs form horizontal LED arrays on 5.08mm (0.200") center-lines. See page 4-41 and 4-42 for pre-assembled arrays
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.443 g
- Housing stand-offs facilitate PCB cleaning
- 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: ±0.04 mm [±0.016]
- CBI Housing: ±0.02mm[±0.008]

Custom Combinations

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



PART NO.

COLOR*

HIGH EFFICIENCY - LED TYPE 01

- 553-0111-200 Red
- 553-0122-200 Green
- 553-0133-200 Yellow
- 553-0177-200 Orange
- 553-0188-200 Blue³



LOW CURRENT - LED TYPE 02

- 553-0211-200 Red
- 553-0222-200 Green
- 553-0233-200 Yellow

RESISTOR 5 VOLTS - LED TYPE 03

- 553-0311-200 Red
- 553-0322-200 Green
- 553-0333-200 Yellow

BI-COLOR - LED TYPE 07

- 553-0711-200 Red/Green
- 553-0744-200 Yellow/Green

NON-DIFFUSED - LED TYPE 22

- 553-2211-200 Red
- 553-2222-200 Green
- 553-2233-200 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.

