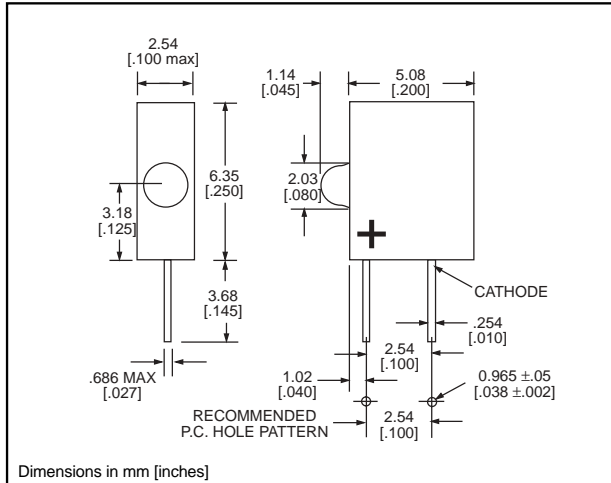


**2mm
LED CBI® Circuit Board Indicator
Single**



555-2xxx



PART NO.

COLOR

GENERAL PURPOSE

| | |
|----------|--------|
| 555-2001 | Red |
| 555-2301 | Green |
| 555-2401 | Yellow |

INTEGRAL RESISTOR, VARIOUS VOLTAGES

| | |
|----------|------------|
| 555-2003 | Red, 5V |
| 555-2007 | Red, 5V |
| 555-2008 | Red, 24V |
| 555-2009 | Red, 5V |
| 555-2303 | Green, 5V |
| 555-2403 | Yellow, 5V |

Features

- Multiple CBIs form horizontal LED arrays on 2.54mm (0.100") center-lines
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 31.5%
- Polymer content: PBT, 0.079 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: 555-4xxx Quad Block

Tolerance note: As noted, otherwise:

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

Typical Operating Characteristics (T_A = 25°C)

See LED data sheet for additional information

GENERAL PURPOSE

See Page 3-17 and 3-18 for Reference Only LED Drive Circuit Examples

See Page 3-19 for Pin Out

| Part Number | Color | Peak Wavelength nm | I _v mcd | V _F Volts | Test Current (mA) | Viewing Angle 2Θ _{1/2} | LED Data sheet | Page # |
|-------------|--------|--------------------|--------------------|----------------------|-------------------|---------------------------------|----------------|--------|
| 555-2001 | Red | 650 | 1.2 | 1.6 | 20 | 40° | 2ND-9412 | 3-14 |
| 555-2301 | Green | 565 | 1 | 2.4 | 20 | 40° | 2ND-9414 | 3-14 |
| 555-2401 | Yellow | 583 | 2 | 2.2 | 20 | 40° | 2ND-9416 | 3-14 |

INTEGRAL RESISTOR, VARIOUS VOLTAGES

| Part Number | Color | Peak Wavelength nm | I _v mcd | I _F mA | Test Voltage | Viewing Angle 2Θ _{1/2} | LED Data sheet | Page # |
|-------------|--------|--------------------|--------------------|-------------------|--------------|---------------------------------|----------------|--------|
| 555-2003 | Red | 650 | 1.9 | 6 | 5 | 40° | 2RD-9614 | 3-15 |
| 555-2007 | Red | 650 | .9 | 3 | 5 | 40° | 2RD-9613 | 3-15 |
| 555-2008 | Red | 650 | .9 | 3 | 24 | 40° | 2RD-9623 | 3-16 |
| 555-2009 | Red | 650 | .6 | 1 | 5 | 40° | 2RD-9618 | 3-15 |
| 555-2303 | Green | 565 | 2.5 | 4.7 | 5 | 40° | 2RD-9615 | 3-15 |
| 555-2403 | Yellow | 583 | 2.1 | 4.7 | 5 | 40° | 2RD-9616 | 3-15 |

2mm
General Purpose
Diffused

Dialight

2ND-xxxx

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

| <u>TYPE</u> | <u>COLOR</u> |
|-------------|--------------|
| 2ND-9412* | Red |
| 2ND-9414* | Green |
| 2ND-9416* | Yellow |

| ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$) | Red -9412 | Green -9414 | Yellow -9416 |
|--|--|-----------------------|------------------------|
| Power Dissipation (mW) | 80 | 80 | 80 |
| Derating (mW/ $^\circ\text{C}$) From 25 $^\circ\text{C}$ | 1.1 | 1.1 | 1.1 |
| Forward Current (mA) | 40 | 25 | 25 |
| Peak Current (mA) <i>Pulse width = 1 μs</i> | 250 | 250 | 250 |
| 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 | | |

| OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$) | | Red -9412 | Green -9414 | Yellow -9416 |
|---|---------|---------------------|-----------------------|------------------------|
| Luminous Intensity (mcd) $I_F=20\text{mA}$ | Min. | 1 | .5 | .6 |
| | Typical | 1.2 | 1 | 2 |
| Peak Wavelength (nm) λ_{Peak} | Typical | 650 | 565 | 583 |
| Viewing Angle ($2\theta_{1/2}$) | Typical | 40 $^\circ$ | 40 $^\circ$ | 40 $^\circ$ |
| Forward Voltage (V) $I_F=20\text{mA}$ | Typical | 1.6 | 2.4 | 2.2 |
| | Max. | 2 | 3 | 3 |
| Reverse Voltage (V), $I_R=10\mu\text{A}$ | Min. | 3 | 3 | 3 |

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

2mm
Integral Resistor, 5 Volts
Diffused

Dialight

2RD-9613 thru 2RD-9618

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

| TYPE | COLOR |
|-----------|--------|
| 2RD-9613* | Red |
| 2RD-9614* | Red |
| 2RD-9615* | Green |
| 2RD-9616* | Yellow |
| 2RD-9618* | Red |

3

| ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$) | Red -9613 | Red -9614 | Green -9615 | Yellow -9616 | Red -9618 |
|--|--|---------------------|-----------------------|------------------------|---------------------|
| Forward Voltage (V) | 6 | 6 | 6 | 6 | 6 |
| Operating Temperature ($^\circ\text{C}$) | -55/+100 | -55/+100 | -55/+100 | -55/+100 | -55/+100 |
| Storage Temperature ($^\circ\text{C}$) | -55/+100 | -55/+100 | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260 $^\circ\text{C}$, 5 seconds, 1.6 mm from case | | | | |

| OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$) | - | Red 9613 | Red -9614 | Green -9615 | Yellow -9616 | Red -9618 |
|---|---------|--------------------|---------------------|-----------------------|------------------------|---------------------|
| Luminous Intensity (mcd) | Min. | .4 | .8 | .8 | 1.3 | .3 |
| | Typical | .9 | 1.9 | 2.5 | 2.1 | .6 |
| Peak Wavelength (nm) | Typical | 650 | 650 | 565 | 583 | 650 |
| λ Peak | | | | | | |
| Viewing Angle ($2\theta_{1/2}$) | Typical | 40 $^\circ$ | 40 $^\circ$ | 40 $^\circ$ | 40 $^\circ$ | 40 $^\circ$ |
| Forward Current (mA) | Typical | 3 | 6 | 4.7 | 4.7 | 1 |
| | Max. | 4 | 8 | 6.7 | 6.7 | 2.6 |
| Reverse Voltage (V), $I_R=100\mu\text{A}$ | Min. | 6 | 6 | 6 | 6 | 6 |

2mm
Integral Resistor, Various Voltages
Diffused



2RD-9619 thru 2RD-9623

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

| <u>TYPE</u> | <u>COLOR</u> |
|-------------|--------------|
| 2RD-9619* | Red, 14V |
| 2RD-9620* | Red, 3.6V |
| 2RD-9621* | Red, 10V |
| 2RD-9622* | Red, 15V |
| 2RD-9623* | Red, 24V |

| ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$) | Red 14V | Red 3.6V | Red 10V | Red 15V | Red 24V |
|--|--|--------------|--------------|--------------|--------------|
| | -9619 | -9620 | -9621 | -9622 | -9623 |
| Forward Voltage (V) | 14 | 3.6 | 10 | 15 | 24 |
| Operating Temperature ($^\circ\text{C}$) | -55/+100 | -55/+100 | -55/+100 | -55/+100 | -55/+100 |
| Storage Temperature ($^\circ\text{C}$) | -55/+100 | -55/+100 | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260 $^\circ\text{C}$, 5 seconds, 1.6 mm from case | | | | |

| OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$) | | Red 14V | Red 3.6V | Red 10V | Red 15V | Red 24V |
|---|---------|--------------|--------------|--------------|--------------|--------------|
| | | -9619 | -9620 | -9621 | -9622 | -9623 |
| Luminous Intensity (mcd) | Min. | 1.3 | 2.6 | 1.8 | .3 | .4 |
| | Typical | 3.1 | 6.2 | 4.2 | .9 | .9 |
| Peak Wavelength (nm) | Typical | 650 | 650 | 650 | 650 | 650 |
| λ_{Peak} | | | | | | |
| Viewing Angle ($2\theta_{1/2}$) | Typical | 40 $^\circ$ | 40 $^\circ$ | 40 $^\circ$ | 40 $^\circ$ | 40 $^\circ$ |
| Forward Current (mA) | Typical | 10 | 20 | 14 | 3 | 3 |
| | Max. | 15 | 25 | 18 | 3.8 | 3.8 |
| Reverse Voltage (V), $I_R=100\mu\text{A}$ | Typical | 15 | 4.6 | 11 | 16 | 25 |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [LED Circuit Board Indicators](#) category:

Click to view products by [Dialight](#) manufacturer:

Other Similar products are found below :

[568-0701-841F](#) [5693F1_7_1-A](#) [LTL-42DGNMHDP1](#) [HLMP1503108F](#) [HLMP1521101](#) [HLMP1523802F](#) [HLMP1790105F](#) [BHA-1564-G](#)
[SMF-HM1530YD-305](#) [AM2520EHSGD](#) [HLMP1301104F](#) [HLMP1421101](#) [LTL-4211NHBP](#) [5390H3](#) [552-0794-810F](#) [553-0222-812F](#) [564-](#)
[0700-831F](#) [WP59BLGEW](#) [WP937SB/4EGW](#) [103-3101-1231-403](#) [5502407811F](#) [550-3007-810F](#) [551-3307MF](#) [573-2399-100F](#) [SSF-](#)
[LXH100MID](#) [SSF-LXH2103SRSRDRP](#) [WP937SB/4YGW](#) [WP937EB2EGW](#) [551-0312-802F](#) [553-0110-802F](#) [6202T3-5VLC](#) [CMD57164](#)
[568-2231-313F](#) [568-0102-809F](#) [568-0102-808F](#) [SSF-LXH513SUGD](#) [568-2232-111F](#) [HLMPK101101F](#) [551-0804-812F](#) [553-0748-862F](#) [591-](#)
[3001-113N-SNF](#) [551-2809MF](#) [566-3505F](#) [5933-535-3531-3F](#) [591-2601-107F](#) [592-2729-313F](#) [LTL-42M4NH106](#) [550-0207-100F](#) [550-0307-](#)
[100F](#) [550-0407-100F](#)