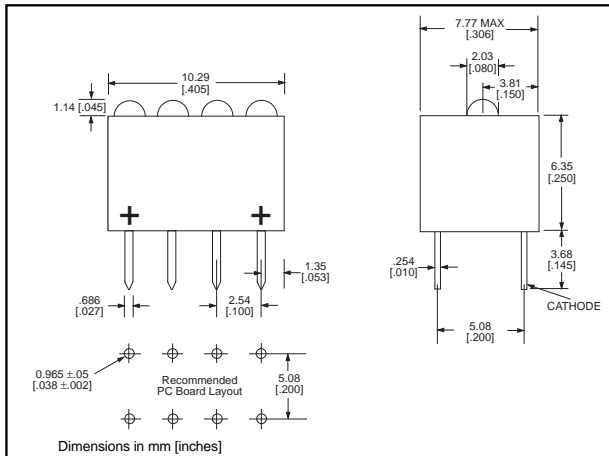


2mm LED CBI® Circuit Board Indicator Quad, Top View



555-5xxx



PART NO.

COLOR

GENERAL PURPOSE

555-5001	Red
555-5301	Green
555-5401	Yellow

INTEGRAL RESISTOR, 5 VOLTS

555-5003	Red
555-5007	Red
555-5009	Red
555-5303	Green
555-5403	Yellow

3

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, 0.424 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: 555-3xxx Single Block

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 ($T_A = 25^\circ\text{C}$)

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 $2\theta_{1/2}$	LED Data sheet	Page #
555-5001	Red	650	1.2	1.6	20	40°	2ND-9412	3-14
555-5301	Green	565	1	2.4	20	40°	2ND-9414	3-14
555-5401	Yellow	583	2	2.2	20	40°	2ND-9416	3-14

INTEGRAL RESISTOR, 5 VOLTS

Part Number	Color	Peak Wavelength nm	I_V mcd	I_F mA	Test Voltage	Viewing Angle $2\theta_{1/2}$	LED Data sheet	Page #
555-5003	Red	650	1.9	6	5	40°	2RD-9614	3-15
555-5007	Red	650	.9	3	5	40°	2RD-9613	3-15
555-5009	Red	650	.6	1	5	40°	2RD-9618	3-15
555-5303	Green	565	2.5	4.7	5	40°	2RD-9615	3-15
555-5403	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.**

TYPE	COLOR
2ND-9412*	Red
2ND-9414*	Green
2ND-9416*	Yellow

ABSOLUTE MAXIMUM RATINGS (T _A =25°C)	Red	Green	Yellow
	-9412	-9414	-9416
Power Dissipation (mW)	80	80	80
Derating (mW/°C) From 25°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 (°C)	-55/+100	-55/+100	-55/+100
Storage Temperature (°C)	-55/+100	-55/+100	-55/+100
Soldering Temperature	260°C, 5 seconds, 1.6 mm from case		

OPERATING CHARACTERISTICS (T _A =25°C)		Red	Green	Yellow
		-9412	-9414	-9416
Luminous Intensity (mcd) I _F =20mA	Min.	1	.5	.6
	Typical	1.2	1	2
Peak Wavelength (nm) λ _{Peak}	Typical	650	565	583
Viewing Angle (2θ _{1/2})	Typical	40°	40°	40°
Forward Voltage (V) I _F =20mA	Typical	1.6	2.4	2.2
	Max.	2	3	3
Reverse Voltage (V), I _R =10μA	Min.	3	3	3

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