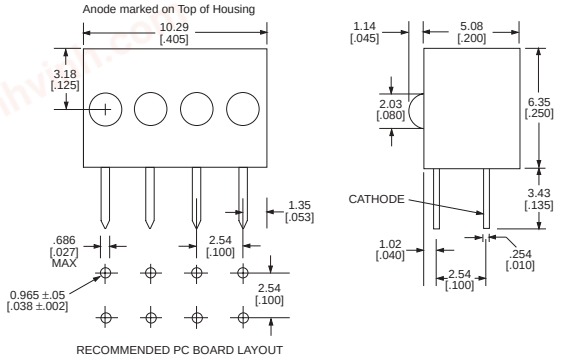
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2mm
LED CBI® Circuit Board Indicator
Quad

Dialight

555-4xxx



PART NO.	COLOR
GENERAL PURPOSE	
555-4001	Red
555-4301	Green
555-4401	Yellow
INTEGRAL RESISTOR, 5 VOLTS	
555-4003	Red
555-4007	Red
555-4009	Red
555-4303	Green
555-4403	Yellow

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, 0.280 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: 555-2xxx 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: ±0.02mm[±0.008]

Typical Operating Characteristics (T_A = 25°C)

See LED data sheet for additional information

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

See Page 3-19 for Pin Out

GENERAL PURPOSE

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 #
555-4001	Red	650	1.2	1.6	20	40°	2ND-9412	3-14
555-4301	Green	565	1	2.4	20	40°	2ND-9414	3-14
555-4401	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 #
555-4003	Red	650	1.9	6	5	40°	2RD-9614	3-15
555-4007	Red	650	.9	3	5	40°	2RD-9613	3-15
555-4009	Red	650	.6	1	5	40°	2RD-9618	3-15
555-4303	Green	565	2.5	4.7	5	40°	2RD-9615	3-15
555-4403	Yellow	583	2.1	4.7	5	40°	2RD-9616	3-15

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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 **-9412**	Green **-9414**	Yellow **-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) *Pulse width = 1 µs*	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 **-9412**	Green **-9414**	Yellow **-9416**
Luminous Intensity (mcd)	Min.	1	.5	.6
I_F=20mA	Typical	1.2	1	2
Peak Wavelength (nm) λ Peak	Typical	650	565	583
Viewing Angle ($2\Theta_{1/2}$)	Typical	40°	40°	40°
Forward Voltage (V)	Typical	1.6	2.4	2.2
I_F=20mA	Max.	2	3	3
Reverse Voltage (V), I_R=10µA	Min.	3	3	3

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

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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

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Red **-9613**	Red **-9614**	Green **-9615**	Yellow **-9616**	Red **-9618**
Forward Voltage (V)	6	6	6	6	6
Operating Temperature (°C)	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Storage Temperature (°C)	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Soldering Temperature	260°C, 5 seconds, 1.6 mm from case				

OPERATING CHARACTERISTICS (T_A=25°C)	-	Red **9613**	Red **-9614**	Green **-9615**	Yellow **-9616**	Red **-9618**
Luminous Intensity (mcd) V_F=5V	Min. Typical	.4 .9	.8 1.9	.8 2.5	1.3 2.1	.3 .6
Peak Wavelength (nm) λ Peak	Typical	650	650	565	583	650
Viewing Angle ($2\Theta_{1/2}$)	Typical	40°	40°	40°	40°	40°
Forward Current (mA) V_F=5V	Typical Max.	3 4	6 8	4.7 6.7	4.7 6.7	1 2.6
Reverse Voltage (V), I_R=100µA	Min.	6	6	6	6	6