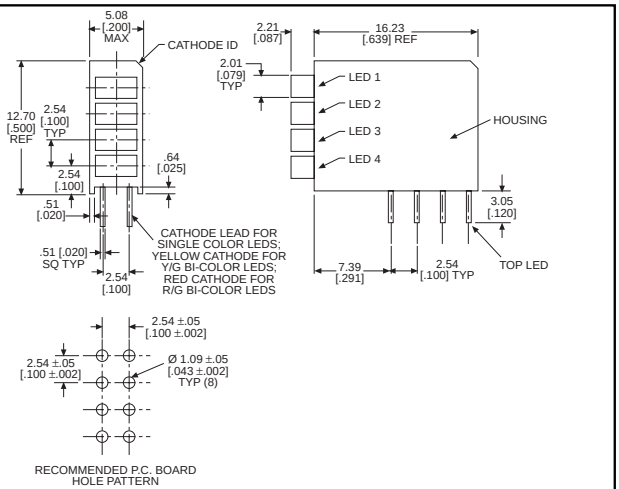
2mm x 4mm Rectangular
LED CBI® Circuit Board Indicator
Quad-Level

Dialight

568-0x2x-xxx

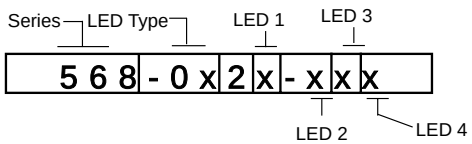


Dimensions in mm [inches]

PART NO.	COLOR*
LED TYPE 01	
568-0121-111	Red-Red-Red-Red
568-0122-222	Green-Green-Green-Green
568-0122-323	Green-Yellow-Green-Yellow
568-0123-232	Yellow-Green-Yellow-Green
568-0123-333	Yellow-Yellow-Yellow-Yellow
BI-COLOR - LED TYPE 07	
568-0721-111	Red/Green-Red/Green-Red/Green-Red/Green
568-0724-444	Yellow/Green-Yellow/Green-Yellow/Green-Yellow/Green

* LED 1, LED 2, LED 3, LED 4

EXAMPLE OF PART NUMBER ORDERING CODE



LED Color = 0) Blank 1) Red or Red/Green Bi-Color 2) Green 3) Yellow 4) Yellow/Green Bi-Color

Features

- Multiple CBIs form horizontal LED arrays on 5.08mm (0.200") center-lines.
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 29%
- Polymer content: PBT, 1.004 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 color combinations.

Typical Operating Characteristics (T_A=25°C)

See LED data sheet for additional information
See Page 5-20 and 5-21 for Reference Only LED Drive Circuit Example
See Page 5-22 for Pin Out

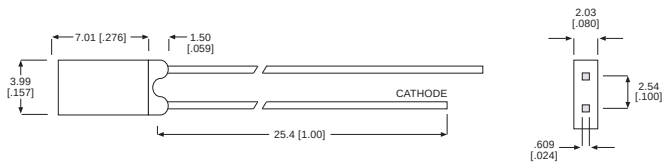
Part Number	Color	Peak Wavelength nm	I_V* mcd	V_F** Volts	Viewing Angle $2\Theta_{½}$	LED Data sheet	Page #
568-012x-xxx	Red	635	3.7	2.1	104°	521-9658	5-14
	Green	565	3.7	2.1	104°	521-9606	5-14
	Yellow	585	3.7	2.1	104°	521-9607	5-14

** I_F = 10mA ** I_F = 20mA*

Part Number	Color	Peak Wavelength nm	I_V mcd	V_F Volts	Test Current (mA)	Viewing Angle $2\Theta_{½}$	LED Data sheet	Page #
568-0721-111	Red/Green	630/565	5.6/5.6	2/2.1	20	140°	521-9743	5-15
568-0724-444	Yellow/Green	585/565	2.5/3.7	2.1/2.1	20	140°	521-9640	5-15

2mm x 4mm Discrete LED Rectangular Tinted

521-9606, -9607, -9658



Dimensions in mm [inches]

PART NO.	COLOR
521-9606	Green
521-9607	Yellow
521-9658	Red

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Green **-9606**	Yellow **-9607**	Red **-9658**
Power Dissipation (mW)	100	60	100
Forward Current (mA)	30	20	30
Derating (mA/°C) *From 50°C*	.4	.25	.4
Peak Current (mA) *Pulse width = 100 µs*	120	80	120
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		

Solder Adherence per MIL-STD-202E, Method 208C

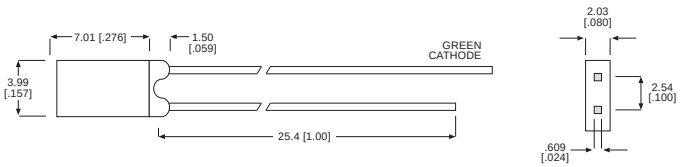
OPERATING CHARACTERISTICS (T_A=25°C)		Green **-9606**	Yellow **-9607**	Red **-9658**
Luminous Intensity (mcd)	Min.	2.2	2.2	1.1
I_F=10mA	Typical	3.7	3.7	3.7
Peak Wavelength (nm)	Typical	565	585	635
λ Peak				
Viewing Angle (2Θ ½)	Typical	104°	104°	104°
Forward Voltage (V)	Typical	2.1	2.1	2.1
I_F=20mA	Max.	2.8	2.8	2.8
Reverse Voltage (V), I_R=100µA	Min.	5	5	5

Θ ½ *is the off axis angle at which the luminous intensity is half the axial luminous intensity*

2mm x 4mm Discrete LED
Rectangular - Bi-Color
Non-Tinted, Diffused

Dialight

521-9640, -9743



Dimensions in mm [inches]

PART NO.	COLOR
521-9640	Yellow/Green
521-9743	Red/Green

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Yellow/Green **-9640**	Red/Green **-9743**
Power Dissipation (mW)	60/100	100/100
Forward Current (mA)	20/30	30/30
Derating (mA/°C) *From 50°C*	.25/.4	.4/.4
Peak Current (mA) *Pulse width = 100 µs*	80/120	120/120
Operating Temperature (°C)	-55/+100	-55/+100
Storage Temperature (°C)	-55/+100	-55/+100
Soldering Temperature	260°C, 5 seconds, 1.6 mm from case	

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS (T_A=25°C)		Yellow/Green **-9640**	Red/Green **-9743**
Luminous Intensity (mcd)	Min.	.7/1.1	1.7/1.7
I_F=20mA	Typical	2.5/3.7	5.6/5.6
Peak Wavelength (nm)	Typical	585/565	630/565
λ Peak			
Viewing Angle (2Θ ½)	Typical	140°	140°
Forward Voltage (V)	Typical	2.1/2.1	2/2.1
I_F=20mA	Max.	2.8/2.8	2.8/2.8

Θ ½ *is the off axis angle at which the luminous intensity is half the axial luminous intensity*

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