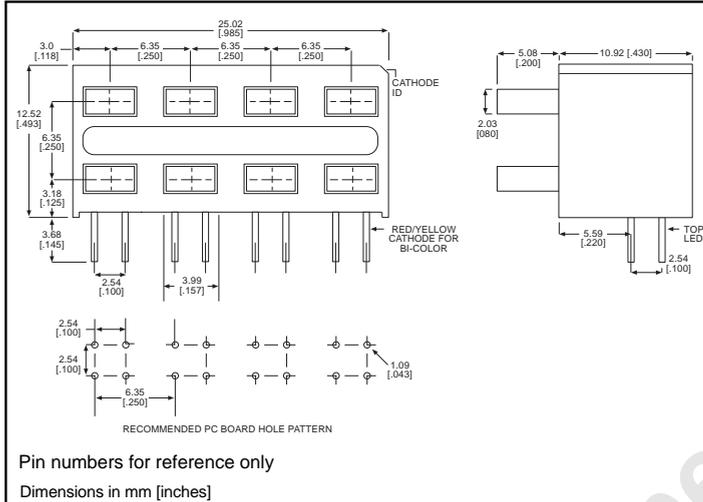


2mm x 4mm Rectangular LED CBI® Circuit Board Indicator Quad Bi-Level Array



567-0xxx-004



PART NO.

- 567-0111-004
- 567-0122-004
- 567-0123-004
- 567-0132-004
- 567-0133-004

COLOR*

- Red-Red
- Green-Green
- Green-Yellow
- Yellow-Green
- Yellow-Yellow

BI-COLOR

- 567-0711-004
- 567-0744-004

- Red/Green-Red/Green
- Yellow/Green-Yellow/Green

*Top-Bottom row of LEDs

Features

- Multiple CBIs form horizontal LED arrays on 6.35mm (0.250") center-lines.
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 3.116 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
- Complements 567-0xxx

Tolerance note: As noted, otherwise:

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

Custom Combination

- 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

Color	Peak Wavelength nm	I _v mcd	V _F Volts	Test Current (mA)	Viewing Angle 2θ%	LED Data sheet	Page #
Green	565	3.7	2.1*	10	104°	521-9606	5-14
Yellow	585	3.7	2.1*	10	104°	521-9607	5-14
Red	635	3.7	2.1*	10	104°	521-9658	5-14
Yellow/Green	585/565	2.5/3.7	2.1/2.1	20	140°	521-9640	5-15
Red/Green	630/565	5.6/5.6	2/2.1	20	140°	521-9743	5-15

* I_F = 20mA

EXAMPLE OF PART NUMBER ORDERING CODE

Series | LED Type | Top Row LED Color

5 6 7 - 0 x x x - 0 0 4

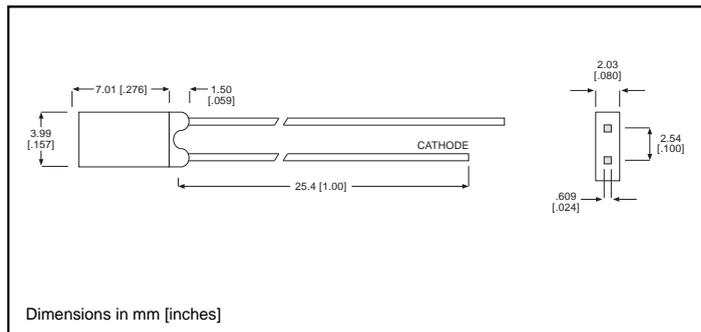
Bottom Row LED Color

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

2mm x 4mm Discrete LED
Rectangular
Tinted

Dialight

521-9606, -9607, -9658



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

ABSOLUTE MAXIMUM RATINGS (T _A =25°C)	Green	Yellow	Red
	-9606	-9607	-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

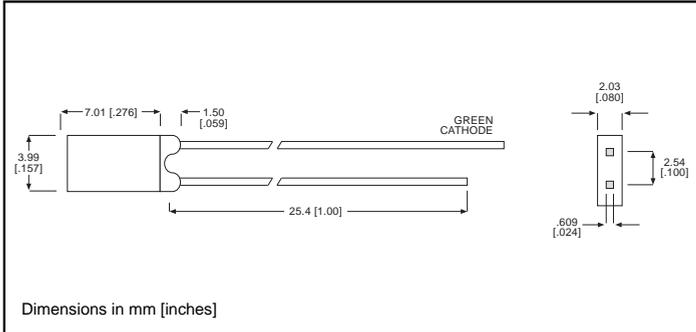
OPERATING CHARACTERISTICS (T _A =25°C)		Green	Yellow	Red
		-9606	-9607	-9658
Luminous Intensity (mcd)	Min.	2.2	2.2	1.1
	Typical	3.7	3.7	3.7
Peak Wavelength (nm)	Typical	565	585	635
Viewing Angle (2Θ ¹)	Typical	104°	104°	104°
Forward Voltage (V)	Typical	2.1	2.1	2.1
	Max.	2.8	2.8	2.8
Reverse Voltage (V), I _R =100μA	Min.	5	5	5

Θ¹ 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



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

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

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

OPERATING CHARACTERISTICS ($T_A=25^\circ\text{C}$)		Yellow/Green	Red/Green
		-9640	-9743
Luminous Intensity (mcd) $I_F=20\text{mA}$	Min.	.7/1.1	1.7/1.7
	Typical	2.5/3.7	5.6/5.6
Peak Wavelength (nm) λ_{Peak}	Typical	585/565	630/565
Viewing Angle ($2\Theta^{1/2}$)	Typical	140 $^\circ$	140 $^\circ$
Forward Voltage (V) $I_F=20\text{mA}$	Typical	2.1/2.1	2/2.1
	Max.	2.8/2.8	2.8/2.8

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

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