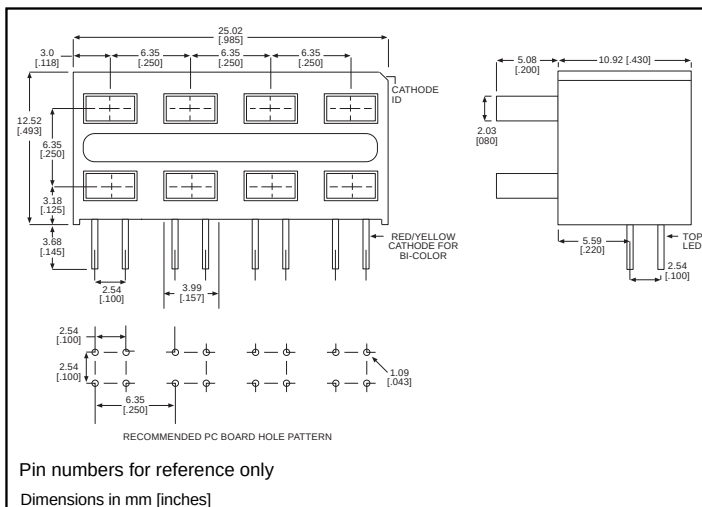


2mm x 4mm Rectangular LED CBI® Circuit Board Indicator Quad Bi-Level Array

Dialight

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

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

5

Tolerance note: As noted, otherwise:

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

Custom Combination

- Contact factory for information on custom color combinations

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

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 $2\theta_{1/2}$	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

* $I_F = 20\text{mA}$

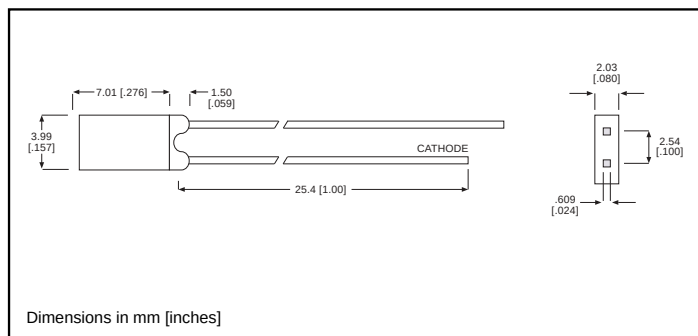
2mm x 4mm Discrete LED

Rectangular

Tinted

Dialight

521-9606, -9607, -9658



PART NO.

521-9606

521-9607

521-9658

COLOR

Green

Yellow

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) λ Peak	Typical	565	585	635
Viewing Angle (2Θ ¹)	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

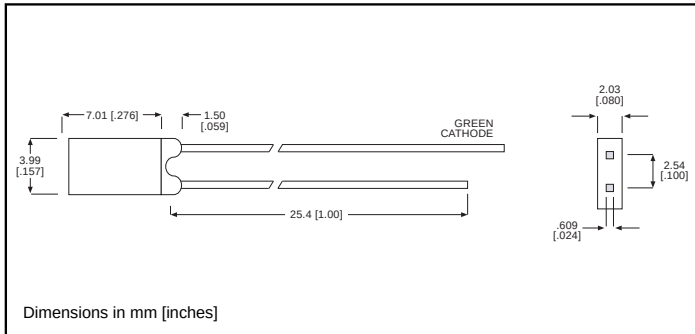
Θ¹ is the off axis angle at which the luminous intensity is half the axial luminous intensity

2mm x 4mm Discrete LED

Rectangular - Bi-Color

Non-Tinted, Diffused

Dialight
521-9640, -9743



PART NO.

521-9640

521-9743

COLOR

Yellow/Green

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