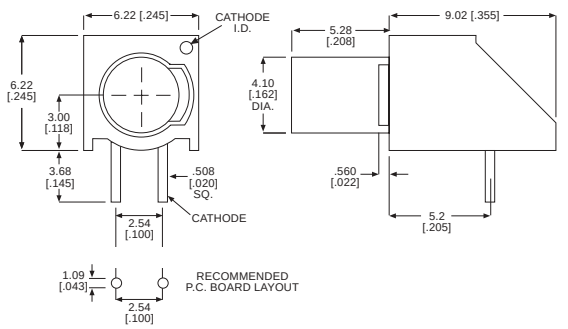
4mm Flat Top
LED CBI® Circuit Board Indicator
Sloped Back Housing

Dialight

550-6x07



Dimensions in mm [inches]

PART NO.	COLOR
550-6207	Green
550-6307	Yellow
550-6407	Red

Features

- Multiple CBIs form horizontal LED arrays on 6.35mm (0.250") center-lines.
- Flat LED provides flush panel appearance and wide viewing angle
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.596 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 552-60xx-200

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 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	Iv mcd	V_F Volts	Test Current (mA)	Viewing Angle $2\theta_{½}$	LED Data sheet	Page #
550-6207	Green	565	12.6	2.1	20	150°	521-9708	5-19
550-6307	Yellow	585	8.7	2.1	20	150°	521-9707	5-19
550-6407	Red	630	8.7	2	20	145°	521-9706	5-19

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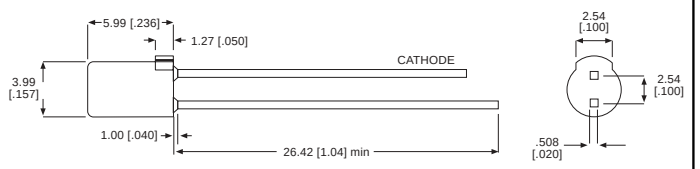
4mm Discrete LED
Flat Top
Tinted, Diffused

Dialight

521-970x



Dimensions in mm [inches]

PART NO.	COLOR
521-9706	Red
521-9707	Yellow
521-9708	Green

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Red **-9706**	Yellow **-9707**	Green **-9708**
Power Dssipation (mW)	100	60	100
Derating (mA/°C) *From 50°C*	.4	.25	.4
Forward Current (mA)	30	20	30
Peak Current (mA) *Pulse width = 100µs*	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)		Red **-9706**	Yellow **-9707**	Green **-9708**
Luminous Intensity (mcd)	Min.	2.5	5.6	8.7
I_F=20mA	Typical	8.7	8.7	12.6
Peak Wavelength (nm) λ Peak	Typical	630	585	565
Viewing Angle (2Θ ½)	Typical	145°	150°	150°
Forward Voltage (V)	Typical	2	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*

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