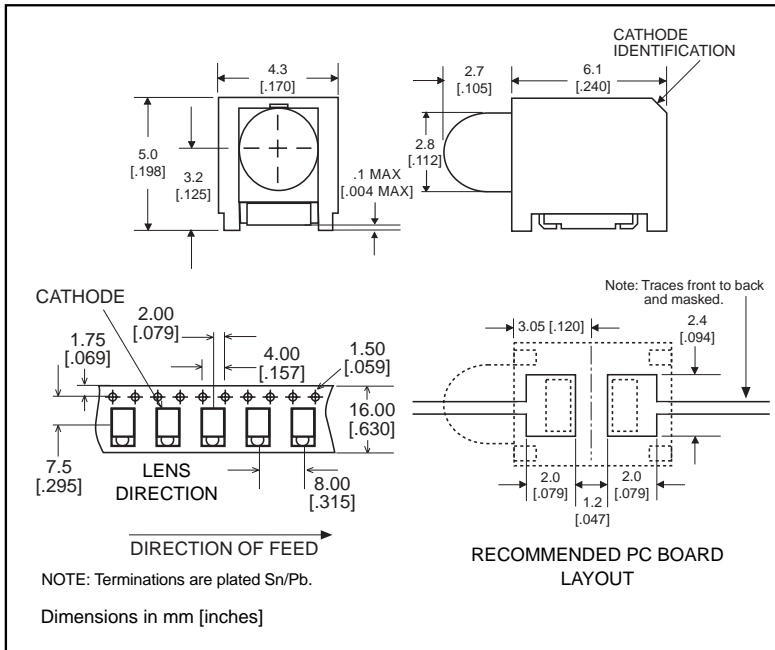


**3mm**  
**Prism® CBI® Circuit Board Indicator**  
**Surface Mount LED, High Intensity, Round Lens**



591-2101-0xx  
 591-2201-0xx  
 591-2701-0xx

**1**



**Part Number\***

**Type**

591-2101-0xx	AlGaAs Red
591-2201-0xx	High Intensity Green
591-2701-0xx	AllnGaP Yellow



**Features**

- Helps to eliminate mixed technology PC board processing.
- Unique patented low part count design.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase solder processes.
- Packaged on 16mm tape, 7" or 13" reels per EIA-481-2.
- Black housing enhances contrast ratio.
- Housing material meets UL94V-0 flammability rating.
- Lens material meets UL94-HB flammability rating.
- Uses LEDs designed specifically for surface mounting.

U.S. Patent RE 34,254; foreign patents pending.

<b>*ORDERING INFORMATION</b>	
<b>591-2x01-0xx</b>	
packaging option	
02	20 pieces on tape
07	7" reel, 400 pcs/reel
13	13" reel, 1600 pcs/reel



591-2101-0xx  
 591-2201-0xx  
 591-2701-0xx

**Absolute Maximum Ratings,  $T_A=25^\circ\text{C}$**

Parameter	-2101	-2201	-2701
Color*	21	22	27
Power Dissipation (derate linearly from 25°C mA/°C)	100mA .8	100mA .6	60mA .6
Forward DC Current	200mA	120mA	160mA
Peak Forward Current (10µ sec)	120mA	120mA	80mA
Operating Temperature	-55°C to +100°C		
Storage Temperature	-55°C to +100°C		
Soldering Temperatures Convection IR Vapor Phase	235° Peak, above 185° for 90 sec., 215°C for 3 Min.		

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

*\*LED colors: 21) AlGaAs Red 22) High Intensity Green, 27) AlInGaP Yellow*

U.S. Patent RE 34,254; foreign patents pending.

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

Parameter	Part No.	Color	Min	Typ	Max	Units	Test Cond.
Forward Voltage $V_F$	-2101	21		1.8	2.4	V	$I_F = 20\text{mA}$
	-2201	22		2.1	2.6		
	-2701	27		2	2.4		
Reverse Voltage $V_R$	-2101	21	3	5		V	$I_R = 10\text{mA}$
	-2201	22	5	5			
	-2701	27	5	5			
Dominant Wavelength $\lambda_{\text{Dom}}$	-2101	21		638		nm	
	-2201	22		569			
	-2701	27		595			
Luminous Intensity $I_V$	-2101	21		23.9		mcd	$I_F = 10\text{mA}$
	-2201	22		9.1			
	-2701	27		33.6			
Viewing Angle ( $2\Theta_{1/2}$ )	-2101	21		40		deg.	
	-2201	22		40			
	-2701	27		40			

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

*\*LED colors: 21) AlGaAs Red 22) High Intensity Green, 27) AlInGaP Yellow*

