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**Optoelectronic Components**

**2022-2024**

# Circuit Board Indicator

Commonly used as panel or diagnostic indicators, Kingbright's circuit board indicators are perfect for any number of applications ranging from diagnostic, industrial equipment, and data storage applications. Each circuit board indicator comes in a variety of configurations and colors that meets the specifications of your application.



41 /  
Single-Level CBI



44 /  
Tri-Level CBI



45 /  
Quad-Level CBI



45 /  
SMD CBI

42 /  
Bi-Level CBI

SINGLE-LEVEL CBI

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
L-710A8CB/1ID	GaAsP/GaP	617	red diffused	6	12	50°	<p>T-1 (3mm) Right Angle</p> <p>L-710A8CB/1</p>
L-710A8CB/1YD	GaAsP/GaP	588	yellow diffused	6	15	50°	
L-710A8CB/1GD	GaP	568	green diffused	8	25	50°	
L-7104RS/1YD	GaAsP/GaP	588	yellow diffused	8	15	50°	<p>T-1 (3mm) Right Angle</p> <p>L-7104RS/1</p>
L-7104RS/1GD	GaP	568	green diffused	10	25	50°	
L-7104ZH/1ID	GaAsP/GaP	617	red diffused	10	20	50°	<p>T-1 (3mm) Right Angle</p> <p>L-7104ZH/1</p>
L-7104ZH/1YD	GaAsP/GaP	588	yellow diffused	8	15	50°	
L-7104ZH/1GD	GaP	568	green diffused	10	25	50°	
L-130WDT/1EGW	GaAsP/GaP	617	white diffused	*10	*24	60°	<p>T-1 (3mm) Right Angle</p> <p>L-130WDT/1</p>
	GaP	568		*12	*30		
L-130WDT/1GYW	GaP	568	white diffused	*18	*40	60°	
	GaAsP/GaP	588		*10	*20		
L-130WDT/1SURKSG-DTS	AlGaInP	630	white diffused	*100	*200	60°	
	GaP	568		*12	*30		
L-1384AD/1ID	GaAsP/GaP	617	red diffused	8	16	60°	<p>3.4mm Right Angle</p> <p>L-1384AD/1</p>
L-1384AD/1YD	GaAsP/GaP	588	yellow diffused	8	15	60°	
L-1384AD/1GD	GaP	568	green diffused	10	20	60°	

NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is ±0.25mm(0.01") unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.

### SINGLE-LEVEL CBI

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-1533BQ/1ID	GaAsP/GaP	617	red diffused	12	30	30°	4.7mm Right Angle 
L-1533BQ/1GD	GaP	568	green diffused	20	50	30°	
L-150A9VS/1EGW	GaAsP/GaP	617	white diffused	*12	*30	40°	T-1 3/4 (5mm) Right Angle 
	GaP	568		*18	*50		
L-150A9VS/1GYW	GaP	568	white diffused	*18	*50	40°	
	GaAsP/GaP	588		*8	*20		
L-59BL/1EGW	GaAsP/GaP	617	white diffused	*20	*40	30°	T-1 3/4 (5mm) Right Angle 
	GaP	568		*20	*60		

### BI-LEVEL CBI

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-4060VH/2ID	GaAsP/GaP	617	red diffused	4	8	70°	1.8mm Bi-Level 
L-4060VH/2YD	GaAsP/GaP	588	yellow diffused	4	8	70°	
L-4060VH/2GD	GaP	568	green diffused	6	12	70°	

**NOTES:**

1. All dimensions are in millimeters(inches).
2. Tolerance is  $\pm 0.25\text{mm}(0.01")$  unless otherwise noted.
3. Luminous intensity value is traceable to CIE127-2007 standards.

BI-LEVEL CBI

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
L-7104EB/2ID	GaAsP/GaP	617	red diffused	10	20	50°	<p>T-1 (3mm) Bi-Level</p> <p>L-7104EB/2</p>
L-7104EB/2YD	GaAsP/GaP	588	yellow diffused	8	15	50°	
L-7104EB/2GD	GaP	568	green diffused	10	25	50°	
L-7104GO/2GD	GaP	568	green diffused	10	25	50°	<p>T-1 (3mm) Bi-Level</p> <p>L-7104GO/2</p>
L-7104MD/1G1ID	GaP	568	green diffused	10	25	50°	<p>T-1 (3mm) Bi-Level</p> <p>L-7104MD/2</p>
	GaAsP/GaP	617	red diffused	10	20	50°	
L-7104MD/2YD	GaAsP/GaP	588	yellow diffused	8	15	50°	
L-7104MD/2GD	GaP	568	green diffused	10	25	50°	
L-7104RT/2ID	GaAsP/GaP	617	red diffused	10	20	50°	<p>T-1 (3mm) Bi-Level</p> <p>L-7104RT/2</p>
L-7104RT/1G1YD	GaP	568	green diffused	10	25	50°	
	GaAsP/GaP	588	yellow diffused	8	15	50°	

NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is ±0.25mm(0.01") unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.

### BI-LEVEL CBI

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-130WCP/2EGW	GaAsP/GaP	617	white diffused	*10	*24	60°	<p>T-1(3mm) Bi-Level</p>
	GaP	568		*12	*30		
L-130WCP/2GYW	GaP	568	white diffused	*18	*40	60°	<p>L-130WCP/2GYW</p>
	GaAsP/GaP	588		*10	*20		
L-1503EB/111YD	GaAsP/GaP	617	red diffused	12	40	30°	<p>T-1 3/4 (5mm) Bi-Level</p>
	GaAsP/GaP	588	yellow diffused	15	30	30°	
L-1503EB/1G1XD	GaP	568	green diffused	15	30	30°	<p>L-1503EB/1G1XD</p>
L-1503EB/2GD	GaP	568	green diffused	15	30	30°	

### TRI-LEVEL CBI

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-4060XHA/3ID	GaAsP/GaP	617	red diffused	4	8	70°	<p>1.8mm Tri-Level</p>
L-4060XHA/3YD	GaAsP/GaP	588	yellow diffused	4	8	70°	
L-4060XHA/3GD	GaP	568	green diffused	6	12	70°	

NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is  $\pm 0.25\text{mm}(0.01")$  unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.

TRI-LEVEL CBI

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-7104SA/2G1ID	GaP	568	green diffused	10	25	50°	T-1 (3mm) Tri-Level 
	GaAsP/GaP	617	red diffused	10	20	50°	
L-7104SA/3GD	GaP	568	green diffused	10	25	50°	

QUAD-LEVEL CBI

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-7104SB/1G1Y1G1YD	GaP	568	green diffused	10	25	50°	T-1 (3mm) Quad-Level 
	GaAsP/GaP	588	yellow diffused	8	15	50°	
L-7104SB/4GD	GaP	568	green diffused	10	25	50°	

SMD CBI

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-138A8QMP/1ID	GaAsP/GaP	617	red diffused	4	10	40°	3.4mm Right Angle 
L-138A8QMP/1YD	GaAsP/GaP	588	yellow diffused	4	8	40°	
L-138A8QMP/1GD	GaP	568	green diffused	6	12	40°	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted.
3. Luminous intensity value is traceable to CIE127-2007 standards.