Unit: ±0.2mm

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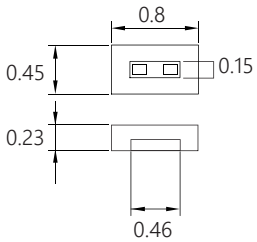

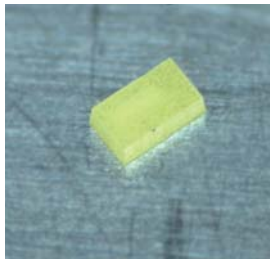

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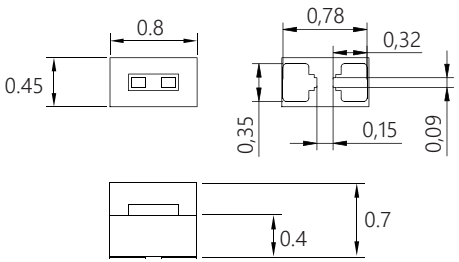
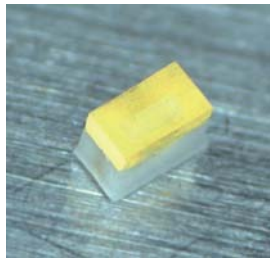


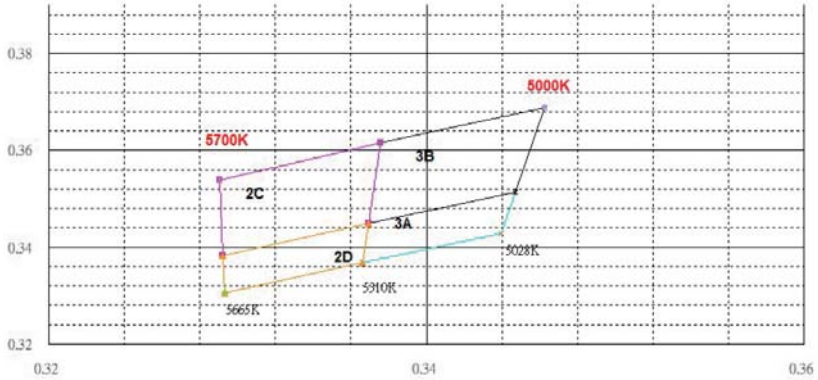


Note:
1. Dimensions are in millimeters.
2. Tolerance: ±0.1 mm
3. Drawings are not in scale.

Materials

- Items	Description
Encapsulating Resin	Epoxy gel with phosphor
Chip	Sapphire

Color Bins for White



Color Bins for White

Bin Code	X	Y	CCT(K) Range	Bin Code	X	Y	CCT(K) Range
3A	0.344719	0.351301	5028~5310K	2C	0.337600	0.361600	5310~5665K
	0.336916	0.344873			0.329053	0.353812	
	0.336600	0.336900			0.329231	0.338226	
	0.343985	0.342749			0.336916	0.344873	
3B	0.346260	0.368726	5028~5310K	2D	0.336916	0.344873	5310~5665K
	0.337600	0.361600			0.329231	0.338226	
	0.336916	0.344873			0.329330	0.330539	
	0.344719	0.351301			0.336600	0.336900	

*Tolerance on each Color bin (x , y) is ± 0.01

Feature

- High-intensity LED
- Compact size
- Patent case number: 109206029
  Case name: High-brightness LED lamp panel structure

Absolute Maximum Ratings

Parameter	Cool White
DC Forward Current (mA)	10
Peak Pulsed Forward Current (mA)	30
DC Reverse Voltage (V)	5
LED Junction Temperature (°C)	135
Metal-core PCB Temperature (°C)	75
Storage & Operating Temperature (°C)	-40 ~ +105

Flux Characteristics at 10mA, Junction Temperature, Tj=25°C

Color	CRI	Minimum Luminous Flux (lm)	Typical Luminous Flux (lm)	Lens Type
White	70	3	–	NL=130°

Optical Characteristics at 10mA, Junction Temperature, Tj=25°C

Color	Dominant Wavelength λD Peak Wavelength λp Color Temperature (CCT)			Spectral Half-width (nm)	Temperature Coefficient or Dominant Wavelength
	Min.	Typ.	Max.	Δλ1/2	ΔλD/ΔTj (nm/°C)
White	5028K	5310K	5665K	–	–

Optical Characteristics at 10mA, Junction Temperature, Tj=25°C

Color	Lens Type	Total Included Angleθ0.9v (degree)	Viewing Angle2θ1/2 (degree)	Typical Candela on Axis (cd)
White	NL	160	130	

Electrical Characteristics at 100mA, Junction Temperature, Tj=25°C

Color	Forward Voltage Vf(V)			Dynamic Resistance(Ω)	Temperature Coefficient of Vf(mV/oC) ΔVf/ΔTj	Thermal Resistance Junction to Board (°C/W)
	Min.	Typ.	Max.			
White	2.6	2.8	3.0			