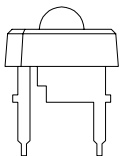


## Features

- Fluorescent type white light
- Water clear epoxy
- 4 leads with stand off as standard
- Volume production can be bin coded for hue (3 grades)
- Low thermal resistance copper leadframe
- Class II ESD Rating

## Electro / Optical Characteristics $I_F = 20 \text{ mA}$ $T_a = 25^\circ \text{ C}$

Lamp Package	LED Part Number	Emitting Colour	Epoxy Type	Die Material	Chromaticity Coordinates		Forward Voltage $V_F$		
					x	y	typical	max	
	FCL-PH65W12WCCI	White	WC	InGaN/SiC	0.31	0.32	3.75	4.00	
	FCL-PH65W15WCCI	White	WC	InGaN/SiC	0.31	0.32	3.50	3.80	
7.6 mm	Units				Typical		V		


## Intensity $T_a = 25^\circ \text{ C}$

Luminous Intensity $I_V$		Viewing $\angle$
typical	@ $I_F$	$2\theta/2$
1000	35	65
1350	35	65
mcd	mA	deg

## Maximum Ratings $T_a = 25^\circ \text{ C}$ ( Derate above $25^\circ \text{ C}$ )

Characteristic	Condition	Symbol	Rating	Units
Pulse Forward Current	0.1 duty cycle @ 1KHz	$I_{FP}$	100	mA
DC Forward Current		$I_F$	35	mA
Reverse Voltage	$I_R = 10 \mu\text{A}$	$V_R$	5	V
Operating Temperature		$T_{opr}$	- 30 to + 85	$^\circ \text{ C}$
Storage Temperature		$T_{stg}$	- 40 to + 100	$^\circ \text{ C}$
Lead soldering temperature	1.6 mm from body - max 5 seconds		260	$^\circ \text{ C}$

**WARNING**



This range of LEDs is produced with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense enough to cause damage to the human eye.

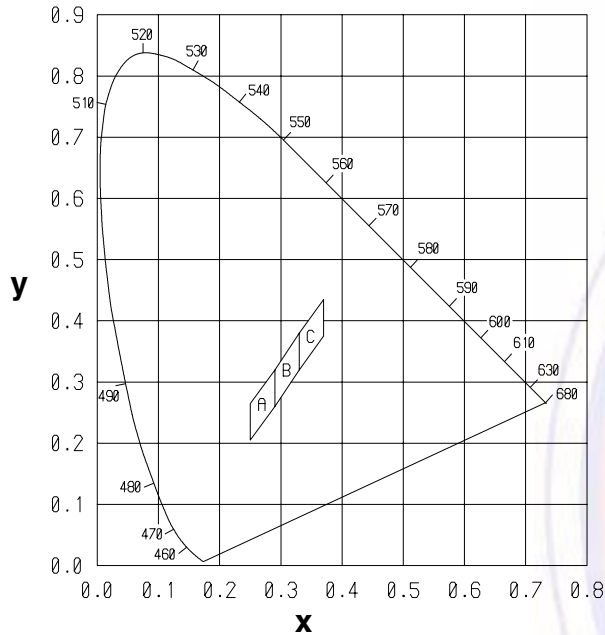
**Note:** Industry standard procedures regarding static must be observed when handling this product.

## Chromaticity Ranking

## Package Outlines

Dimensions in mm Tol ± 0.25 mm unless stated

**CIE 1931 Chromaticity Diagram**

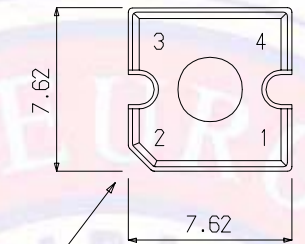


Rank A				
<b>x</b>	0.250	0.250	0.290	0.290
<b>y</b>	0.205	0.265	0.320	0.260

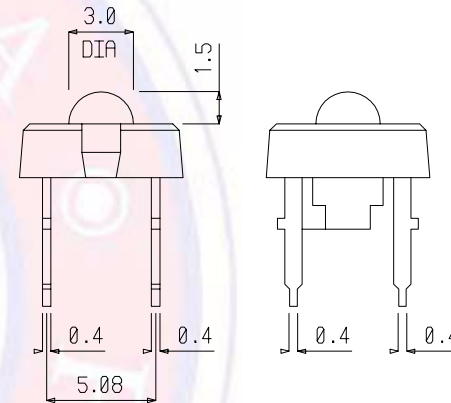
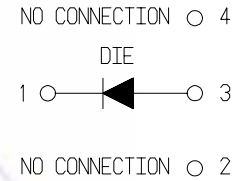
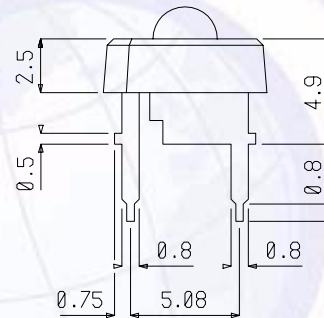
Rank B				
<b>x</b>	0.290	0.290	0.330	0.330
<b>y</b>	0.260	0.320	0.380	0.320

Rank C				
<b>x</b>	0.330	0.330	0.370	0.370
<b>y</b>	0.320	0.380	0.435	0.375

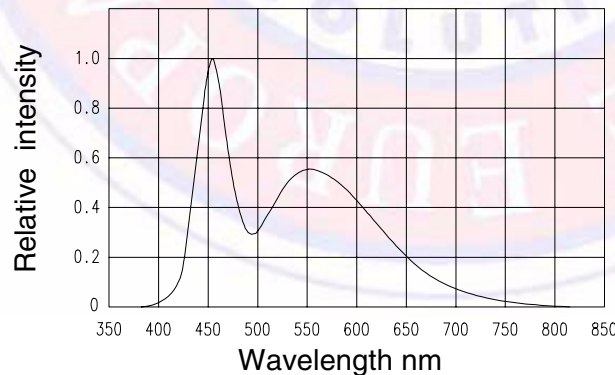
Measurement Tolerance x and y ± 0.02



CHAMFER ADJACENT TO LEAD 2



**Emission Spectrum**  $T_a = 25^\circ\text{C}$   $I_F = 20\text{ mA}$



**Radiation Diagram**  $T_a = 25^\circ\text{C}$   $I_F = 20\text{ mA}$

