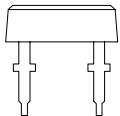


Features

- Fluorescent type white light
- Ultra wide angle
- 4 leads with stand off as standard
- Volume production can be bin coded for hue (3 grades)
- Produced with copper leadframes
- 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		Luminous Intensity I_V		Viewing $\angle$ 20 $\frac{1}{2}$
					x	y	typical	max	min	typical	
	FCL-P115W12WCCO	White	WC	InGaN/SiC	0.31	0.32	3.75	4.00	-	185	115
	FCL-P115W15WCCO	White	WC	InGaN/SiC	0.31	0.32	3.50	3.80	-	250	115
7.6 mm	Units				Typical		V		mcd		deg

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

Characteristic	Condition	Symbol	Rating	Units
Pulse Forward Current	0.1 duty cycle @ 1KHz	I_{FP}	100	mA
DC Forward Current		I_F	25	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.

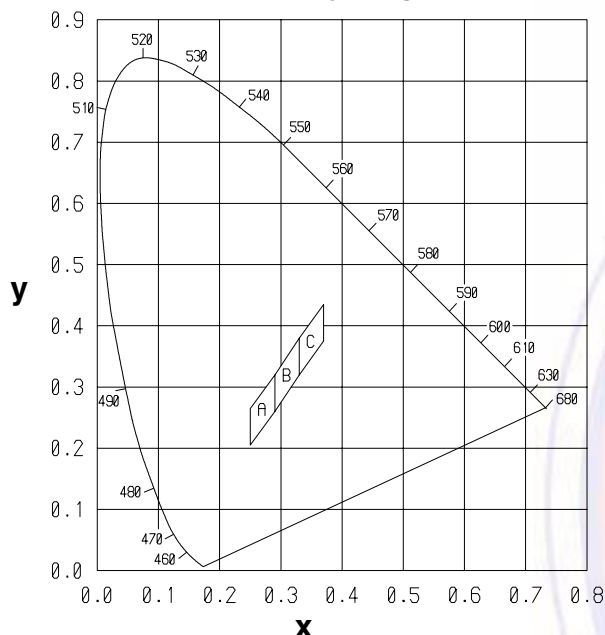
Note: Industry standard procedures regarding static must be observed when handling this product.

Chromaticity Ranking

Package Outline

Dimensions in mm Tol ± 0.25 mm unless stated

CIE 1931 Chromaticity Diagram

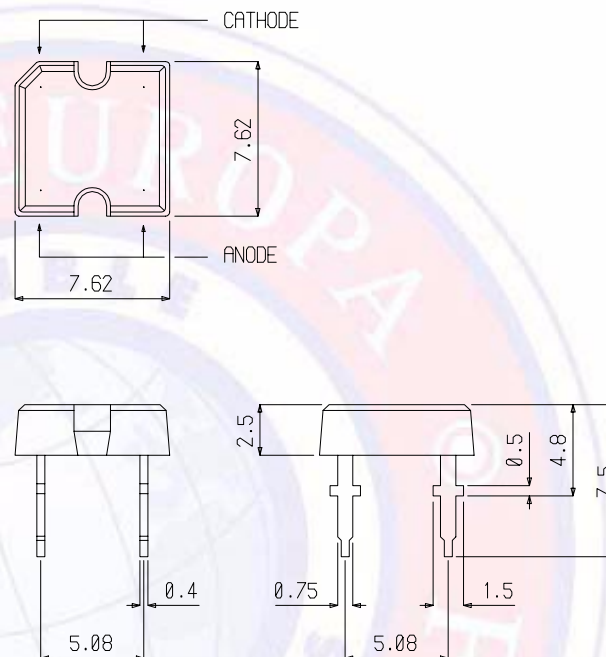


	Rank A			
x	0.250	0.250	0.290	0.290
y	0.205	0.265	0.320	0.260

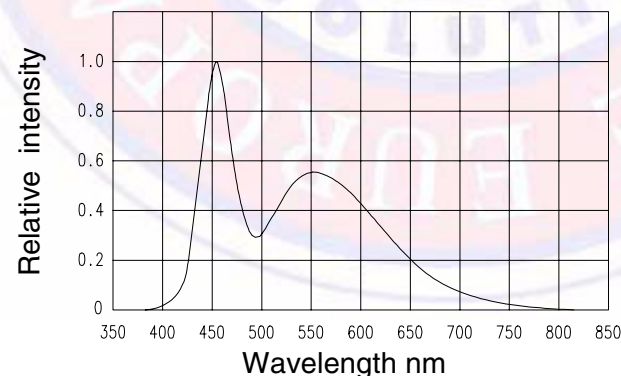
	Rank B			
x	0.290	0.290	0.330	0.330
y	0.260	0.320	0.380	0.320

	Rank C			
x	0.330	0.330	0.370	0.370
y	0.320	0.380	0.435	0.375

Measurement Tolerance x and y ± 0.02



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



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

