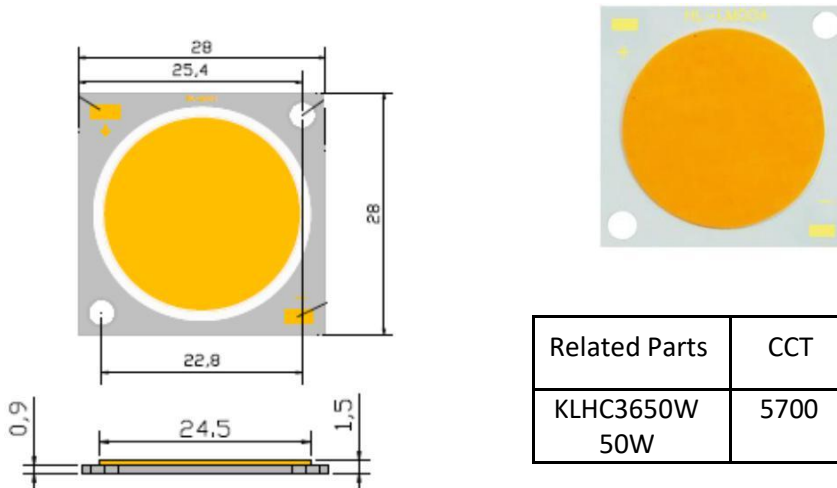


# Datasheet No.110 COB KLHC3650W 35W/50W 120LPW/100LPW

## Packaging Dimensions



Related Parts	CCT	Lumens(Typ)	I <sub>max</sub>
KLHC3650W 50W	5700	4270-5300 Lm	1440 mA

## Electrical/Optical Characteristics at T<sub>c</sub> = 25°C

Parameters	Symbol	Min	TYP	Max.	Units	Test Condition
Forward Voltage (12 Series)	V <sub>F</sub>	34	37.5	40	V	I <sub>F</sub> =1.05A
Reverse Current	I <sub>R</sub>	--	--	10	μA	V <sub>R</sub> =5V
Luminous Flux	φ <sub>V</sub>	4270	4410	5300	Lm	I <sub>F</sub> =1.05A/38Wtyp
Color Coordinated	X	--	0.32	--	--	I <sub>F</sub> =1.05A
	Y	--	0.34	--	--	I <sub>F</sub> =1.05A
Color Temperature	T <sub>c</sub>	--	5700	--	K	I <sub>F</sub> =1.05A
Color Rendering Index	R <sub>a</sub>	80	--	--	--	I <sub>F</sub> =1.05A
Viewing Angle			120°			

## Absolute Maximum Rating at T<sub>c</sub> = 25°C

Parameter	Symbol	Rating	Units
Input Power	P <sub>i</sub>	51.8	W
DC Forward Current	I <sub>F</sub>	1440	mA
Junction Temperature	T <sub>j</sub>	115	°C
Electrostatic Discharge (HBM)	ESD	1000	V
Operating Temperature	T <sub>opr</sub>	-20°C to +85°C	°C
Lead Soldering Temperature	T <sub>sol</sub>	Max 350°C for 5 sec Max	

1. The temperatures of Aluminum PCB do not exceed 85°C. If the input power reach 80% max P<sub>i</sub>, the temperature of Aluminum PCB should be control below 75°C.
2. When hand soldering, keep the temperature of iron below less 350°C less than 5 seconds.

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