



### xLED-CRE-8050 Pin Fin Heat Sink Ф80mm for Cree

### **Features VS Benefits**

- \* The xLED-CRE-8050 Cree Pin Fin LED Heat Sinks are specifically designed for luminaires using the Cree LED engines.
- \* Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- \* For spotlight and downlight designs from 1,100 to 3,400 lumen.
- \* Thermal resistance range Rth 2.38°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of Cree® XLamp® COB series.
- \* Diameter 80mm standard height 50mm, Other heights on request.
- \* Forged from highly conductive aluminum.

#### Zhaga LED engine and radiator assembly is a unified future international standardization

- \* Below you find an overview of Cree COB's and LED modules which standard fit on the Pin Fin LED Heat Sinks.
- \* In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED Pin Fin LED Heat Sink.







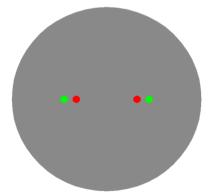




STUCCHI







# **Cree LED Modules directly Mounting Options**

#### Cree® XLamp® COB Series:

Xlamp CXA 25xx; Xlamp CXB 25xx;

With the Zhaga Book 3 holders for the green indicator marks.

Direct mounting with machine screws M3x6.5mm.

Olivia series: FN14637-S; FN14828-M;

### Cree® XLamp® COB Series:

Xlamp CXA 18xx;

Xlamp CXB 18xx

With the Zhaga Book 3 holders for the green indicator marks.

Direct mounting with machine screws M3x6.5mm.

Olivia series: FN14637-S; FN14828-M;

#### Cree® XLamp® COB Series:

With the Zhaga Book 11 holders for the red indicator marks. IDEAL Holder:50-2001CR;

BJB Holder:47.319.6104.50; AAG.STUCCHI holder:8400-G2;

Direct mounting with machine screws M3x6.5mm.





XLED

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# **Mounting Options and Drawings & Dimensions**

Example:xLED-CRE-8050-B-1,2

Example:xLED-CRE-80 1 - 2 -

1 Height (mm)

**Anodising Color** 

B-Black

C-Clear

**Z-Custom** 

Mounting Options - see graphics for details Combinations available

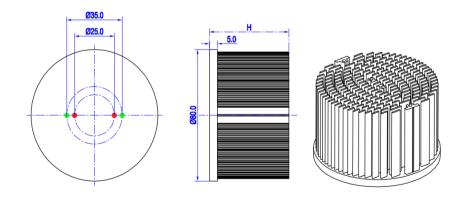
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means option 1 and 2 combined

#### Notes:

- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.
- MingfaTech reserves the right to change products or specifications without prior notice.

MOUNTING OPTION	Module type	Holder NO.	LEDiL products		THREAD	THREAD	THREAD HOLE
			Olivia series	Ronda series	INCEAD	DEPTH	DISTANCE
1	Xlamp CXA 15xx; Xlamp CXB 15xx;	BJB Holder 47.319.6104.50	,	FN15xxx-xx;	М3	6.5mm	25.0mm/ 2-@180° (Zhaga Book 11)
		AAG.STUCCHI 8400-G2					
		IDEAL Holder 50-2001CR					
2	Xlamp CXA 18xx; Xlamp CXB 18xx;	BJB Holder 47.319.2131.50	FN14637-S; FN14828-M;		МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
		IDEAL Holder 50-2101CR					
	Xlamp CXA 25xx; Xlamp CXB 25xx;	BJB Holder 47.319.2141.50					
		AAG.STUCCHI 8401-G2					
		IDEAL Holder 50-2102CR					

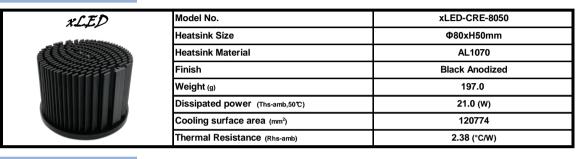








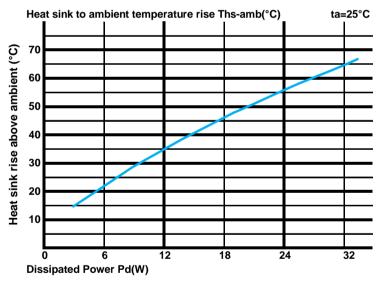
## The product deta table



#### The thermal data table

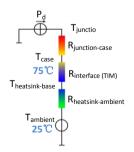
- \* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- \*To calculate the dissipated power please use the following formula:  $Pd = Pe \times (1-\eta L)$ .
- Pd Dissipated power ; Pe Electrical power ;  $\eta L =$  Light effciency of the LED module;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)		
		xLED-CRE-8050			
Dissipated Power Pd(W)	6.0	3.50	21.0		
	12.0	2.92	35.0		
	18.0	2.56	46.0		
	24.0	2.29	55.0		
	32.0	2.00	64.0		



- \*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).
- $\label{thm:mingFa} \mbox{MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.}$

 $Either thermal\ grease, A\ thermal\ pad\ or\ a\ phase\ change\ thermal\ pad\ thickness\ 0.\ I-0.\ I\ 5mm\ is\ recommended.$ 



- \*Thermal resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow. Geometric shapes are different, the thermal resistance is different. Formula:  $\theta = (Ths Ta)/Pd$
- $\theta$  Thermal Resistance [°C/W] ; Ths - Heatsink temperature ; Ta - Ambient temperature ;
- \*The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is  $R_{junction-case}$ , the thermal resistance of the TIM outside the package is  $R_{interface}(TIM)$  [°C/M], the thermal resistance with the heat sink is  $R_{heatsink-ambient}$  [°C/M], and the ambient temperature is  $T_{ambient}$  [°C/].
- \*Thermal resistances outside the package  $R_{interface \, (TIM)}$  and  $R_{heatsink-ambient}$  can be integrated into the thermal resistance  $R_{case-ambient}$  at this point. Thus, the following formula is also used:  $T_{junction} = (R_{junction-case} + R_{case-ambient})^{p}Pd + T_{ambient}$

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