



EtraLED-CRE-9650 CREE Modular Passive Star Heat Sink Ф96mm

Features VS Benefits

- * The EtraLED-CRE-9650 Cree Modular Passive Star 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 2000 to 5,100 lumen.
- * Thermal resistance range Rth 1.45°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Cree® XLamp® COB series.
- * Diameter 96mm standard height 50mm, Other heights on request.
- * Forged from highly conductive aluminum.

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

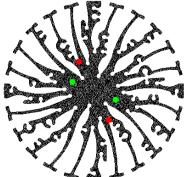
- * Below you find an overview of Cree COB's and LED modules which standard fit on the srar LED heat sinks.
- * In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of srar LED heat sinks.













Xlamp CXB 13xx

With the Zhaga Book 11 holders for the green indicator marks.

Direct mounting with machine screws M3x6.5mm.

Cree® XLamp® COB Series:

Xlamp CXB 18xx;

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

IDEAL Holder:50-2101CR; BJB Holder:47.319.2131.50;

Direct mounting with machine screws M3x6.5mm.

Olivia series: FN14637-S; FN14828-M; Ronda series: FN15xxx-xx;

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.

With the LEDiL products: Ronda series: FN15xxx-xx;





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Mounting Options and Drawings & Dimensions

Example: EtraLED-CRE-9650-B-1,2

Example:EtraLED-CRE-96 1 -

Height (mm)

Anodising Color

B-Black

C-Clear

Z-Custom

Mounting Options - see graphics for details Combinations available

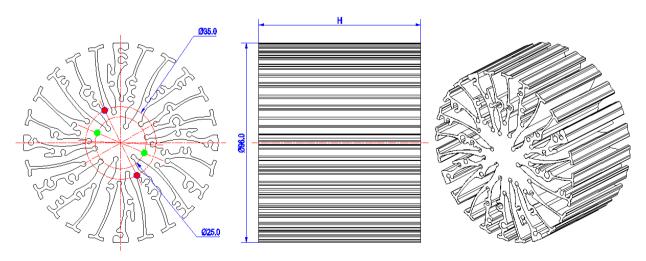
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means option 1 and 2 combined

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 13xx; Xlamp CXB 13xx;	BJB Holder 47.319.6104.50	FN14637-S;	FN15xxx-xx;	МЗ	6.5mm	25.0mm/ 2-@180° (Zhaga Book 11)
		IDEAL Holder 50-2001CR					
	Xlamp CXA 15xx; Xlamp CXB 15xx;	BJB Holder 47.319.6104.50	ı				
		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					

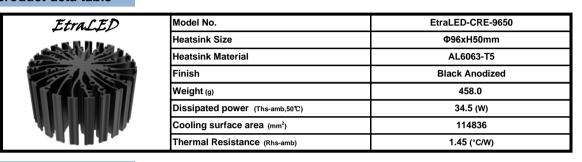


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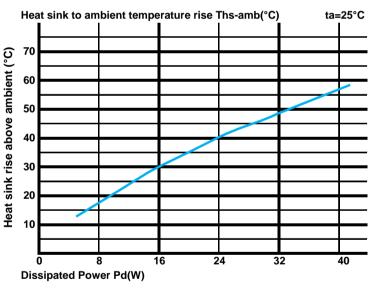
The product deta table



The thermal data table

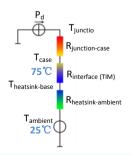
- * Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- *To calculate the dissipated power please use the following formula: $Pd = Pe \times (I \eta L)$.
 - Pd Dissipated power ; Pe Electrical power ; $\eta L =$ Light effciency of the LED module;

1					
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)		
		EtraLED-CRE-9650			
(W	8.0	2.25	18.0		
er Pd(16.0	1.88	30.0		
Dissipated Power Pd(W)	24.0	1.67	40.0		
	32.0	1.50	48.0		
	40.0	1.40	56.0		



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

 $Either thermal\ grease, A\ thermal\ pad\ or\ a\ phase\ change\ thermal\ pad\ thickness\ 0.1-0.15 mm\ is\ recommended.$



- *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: $\theta = (Ths Ta)/Pd$
- θ Thermal Resistance [°C/M]; 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: $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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