



xLED-LUME-8050 Pin Fin Heat Sink Φ80mm for Lumens

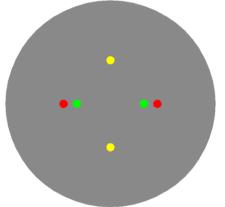
Features VS Benefits

- * The xLED-LUME-8050 Lumens Pin Fin LED Heat Sinks are specifically designed for luminaires using the Lumens 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 Lumens Ergon COB series, and AC-ALL series LED engines.
- * Diameter 80.0mm standard height 50.0mm 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 Lumens 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.





Lumens LED Modules directly Mounting Options Lumens Ergon COB_HO, COB_HO+, COB_HE Series:

ERC1812xxxxHO; ERC1812xxxxHE; ERC1820xxxHO; ERC1820xxxHE; With the Zhaga Book 3 holders for the red indicator marks. (Ideal Holder:50-2101CR); (BJB holder:47.319.2131.50); Without the holders for the green indicator marks.

Lumens Ergon COB_HO, COB_HO+, COB_HE Series :

 ERC2520xxxHO;
 ERC2530xxxxHE;

 ERC2530xxxxHO;
 ERC2540xxxxHC;

 ERC2540xxxxHO;
 ERC2530xxxxHO+

ERC2520xxxxHO+

With the Zhaga Book 3 holders for the red indicator marks. (Ideal Holder:50-2102CR); (BJB Holder:47.319.2141.50); Without the holders for the yellow indicator marks. Direct mounting with machine screws M3x6.5mm.

Lumens AC-ALL Series :

EDC/47C/15W/xxx/120V/B; EDC/47C/15W/xxx/230V/A; EDC/57C/20W/xxx/120V/B; EDC/57C/20W/xxx/230V/A; EDC/57C/30W/xxx/230V/A;

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

Direct mounting with machine screws M3x6.5mm.

Please refer to the www.lumensleds.com data provided on the manual.

Mingfa



Mounting Options and Drawings & Dimensions

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

Example:xLED-LUME-80



Height (mm)



Anodising Color

B-Black

C-Clear

Z-Custom



Mounting Options - see graphics for details Combinations available

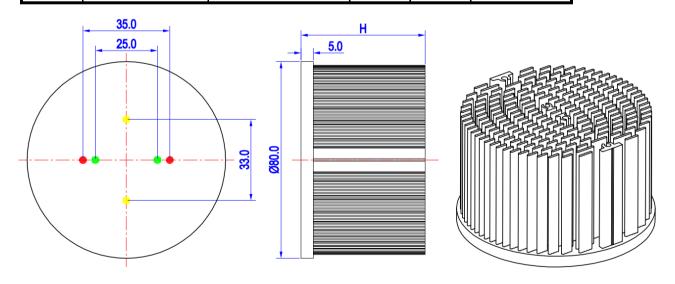
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means option 1 and 2 combined

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.	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
1	Ergon COB (17.85×17.85)	1	М3	6.5mm	25.0mm/ 2-@180°
2	Ergon COB (23.85×23.85)	1	М3	6.5mm	33.0mm/ 2-@180°
3	AC-ALL Series	Lumens	мз	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
	Ergon COB (17.85×17.85)	BJB Holder 47.319.2131.50			
		ldeal Holder 50-2101CR			
	Ergon COB (23.85×23.85)	BJB Holder 47.319.2141.50			
		Ideal Holder 50-2102CR			



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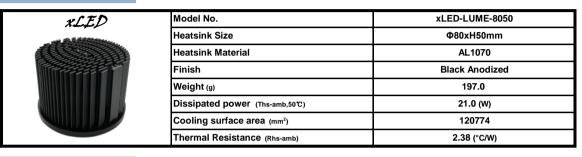
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Http://www.heatsinkled.com Http://www.mingfatech.com





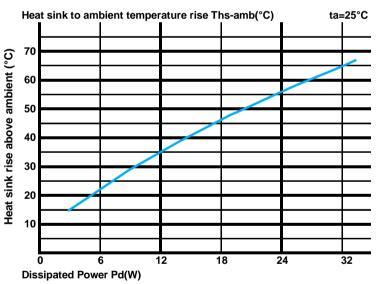
The product deta table



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; $\eta L = \text{Light effciency of the LED module};$

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-LUME-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). 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 0.1-0.15mm is recommended.
- T_{case}
 T_{heatsink-base}
 T_{ambient}
 T_{junctio}
 R_{junction-case}
 Rinterface (TIM)
 Rheatsink-ambient
- *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 $R_{\text{junction-case}}$, the thermal resistance of the TIM outside the package is $R_{\text{interface}}(TIM)$ ["CM], the thermal resistance with the heat sink is $R_{\text{heatsink-ambient}}$ ["CM], 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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