GooLED

GooLED-LUME-11050 Pin Fin Heat Sink Φ110mm for Lumens

Features VS Benefits

* The GooLED-LUME-11050 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 2,000 to 5,500 lumen.
* Thermal resistance range Rth 1.47°C/W.
* Modular design with mounting holes foreseen for direct mounting of Lumens Ergon COB series, and AC-ALL series LED engines.
* Diameter 110.0mm - standard height 50.0mm Other heights on request.
* Forged from highly conductive aluminum.

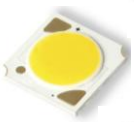
Zhaga LED engine and radiator assembly is a unified future international standardization

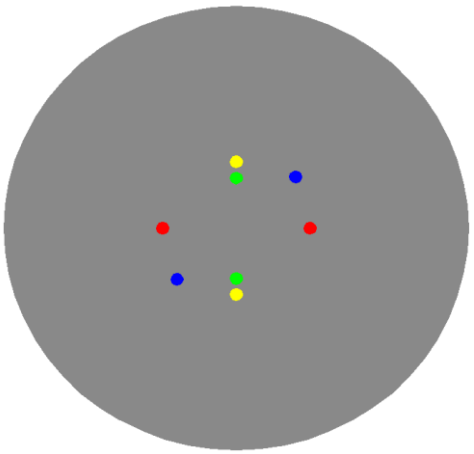
* Below you find an overview of Lumens COB's and LED modules which standard fit on the Pin Fin LED Heat Sinks.
* In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED Pin Fin LED Heat Sink.

LUMENS

BJB

IDEAL





Lumens LED Modules directly Mounting Options

Lumens Ergon COB_HO, COB_HO+, COB_HE Series :

ERC1812xxxxHO; ERC1812xxxxHE;
ERC1820xxxxHO; ERC1820xxxxHE;

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.
Direct mounting with machine screws M3x6.5mm.

Lumens Ergon COB_HO, COB_HO+, COB_HE Series :

ERC2520xxxxHO; ERC2530xxxxHE;
ERC2530xxxxHO; ERC2540xxxxHE;
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 Ergon COB_HO, COB_HO+, COB_HE Series :

ERC3050xxxxHO; ERC3050xxxxHE;
ERC3070xxxxHO; ERC3070xxxxHE;

With the Zhaga Book 3 holders for the green indicator marks.
(Ideal Holder:50-2234C); (BJB holder:47.319.2151.50);
Without the holders for the blue indicator marks.
Direct mounting with machine screws M3x6.5mm.

Lumens AC-ALL Series :

EDC/57C/20W/xxx/120V/B; EDC/57C/20W/xxx/230V/A;
EDC/57C/30W/xxx/120V/B; EDC/57C/30W/xxx/230V/A;
EDC/57C/40W/xxx/120V/B; EDC/57C/40W/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.

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Mingfa TECH

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Mounting Options and Drawings & Dimensions

Example:GooLED-LUME-11050-B-1,2

Example:GooLED-LUME-110 1 - 2 - 3

1 Height (mm)

2 Anodising Color

B-Black

C-Clear

Z-Custom

3 Mounting Options - see graphics for details Combinations available

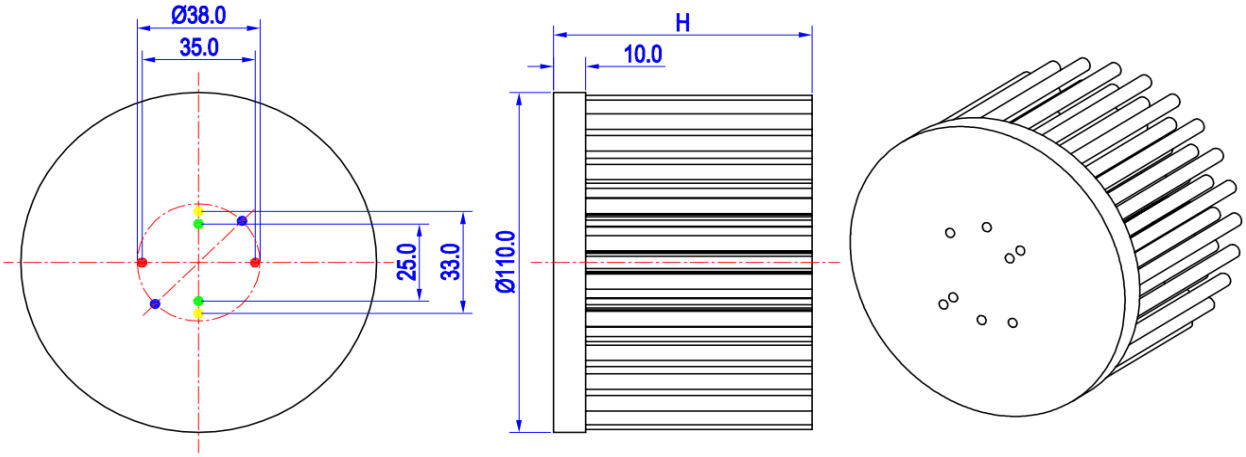
Ex.order code - 12

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)	/	M3	6.5mm	25.0mm/ 2-@180°
2	Ergon COB (23.85×23.85)	/	M3	6.5mm	33.0mm/ 2-@180°
3	AC-ALL Series	Lumens	M3	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
	Ergon COB (17.85×17.85)	BJB Holder 47.319.2131.50			
		Ideal Holder 50-2101CR			
	Ergon COB (23.85×23.85)	BJB Holder 47.319.2141.50			
		Ideal Holder 50-2102CR			
	Ergon COB (27.35×27.35)	BJB Holder 47.319.2151.50			
		Ideal Holder 50-2234CR			
4		/	M3	6.5mm	38.0mm/ 2-@180°



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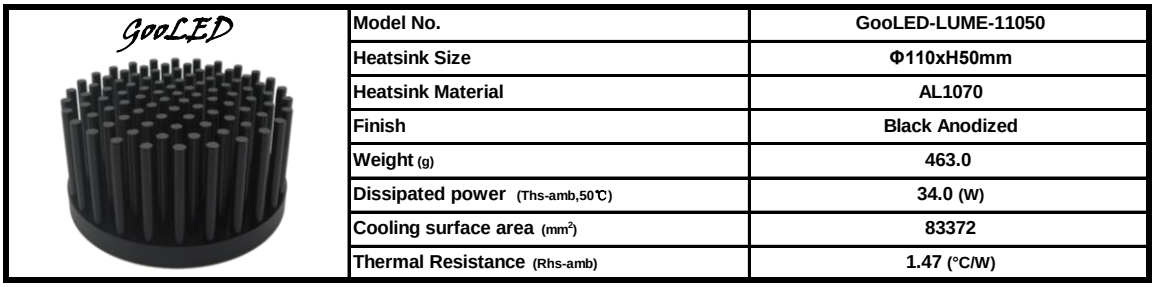
The product deta table



Model No.	GooLED-LUME-11050
Heatsink Size	Φ110xH50mm
Heatsink Material	AL1070
Finish	Black Anodized
Weight (g)	463.0
Dissipated power (Ths-amb,50℃)	34.0 (W)
Cooling surface area (mm^2)	83372
Thermal Resistance (Rhs-amb)	1.47 (°C/W)

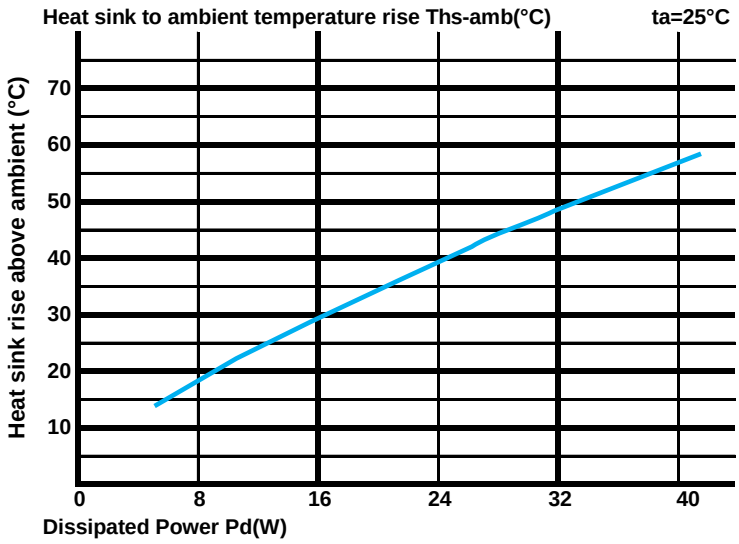
The thermal data table

* 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 x (1-ηL).

Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

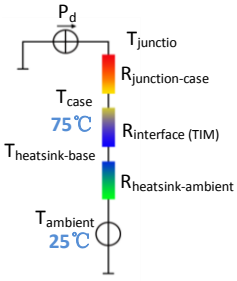
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		GooLED-LUME-11050	
Dissipated Power Pd(W)	8.0	2.25	18.0
	16.0	1.81	29.0
	24.0	1.63	39.0
	32.0	1.50	48.0
	40.0	1.40	56.0



*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).

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.



*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: θ =(Ths−Ta)/Pd

θ - 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/W], the thermal resistance with the heat sink is $R_{heatsink-ambient}$ [°C/W], 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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