
GooLED

# GooLED-LUN-6830 Pin Fin LED Heat Sink Φ68mm for Luminus

## Features VS Benefits

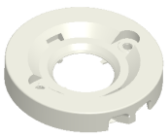
* The GooLED-LUN-6830 Luminus Pin Fin LED Heat Sinks are specifically designed for luminaires using the Luminus LED engines.
* Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
* For spotlight and downlight designs from 800 to 2,100 lumen.
* Thermal resistance range Rth 4.0°C/W.
* Modular design with mounting holes foreseen for direct mounting of Luminus COB series.
* Diameter 68mm - standard height 30mm, 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 Luminus 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.

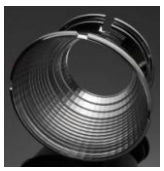
LUMINUS

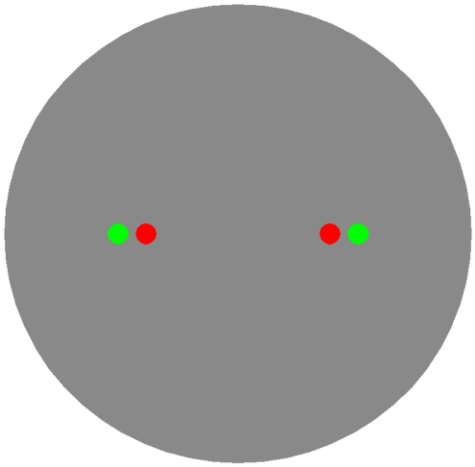

BJB



TE connectivity

LEDiL





### Luminus LED Modules directly Mounting Options

**Luminus COB series.**

CXM-11-AC;
CIM/CLM/CXM-14;
With the Zhaga Book 3 holders for the green indicator marks.
TE Connectivity Holder: 2213254-1;
BJB Holder:47.319.2021.50;
Without the holders for the red indicator marks.
Direct mounting with machine screws M3x6.5mm.
With the LEDiL products:
Lena series: CN12xxx;
Lenina series: CN12xxx; C12xxx;

**Luminus COB series.**

CXM-18;
With the Zhaga Book 3 holders for the green indicator marks.
TE Connectivity Holder: 2213258-1;
BJB Holder:47.319.2280.50;
Direct mounting with machine screws M3x6.5mm.
With the LEDiL products:
Lena series: CN12xxx;

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## Mounting Options and Drawings & Dimensions

**Example:GooLED-LUN-6830-B-1,2**

**Example:GooLED-LUN-68 1 - 2 - 3**

**1** **Height (mm)**

**2** **Anodising Color**

**B-Black**

**C-Clear**

**Z-Custom**

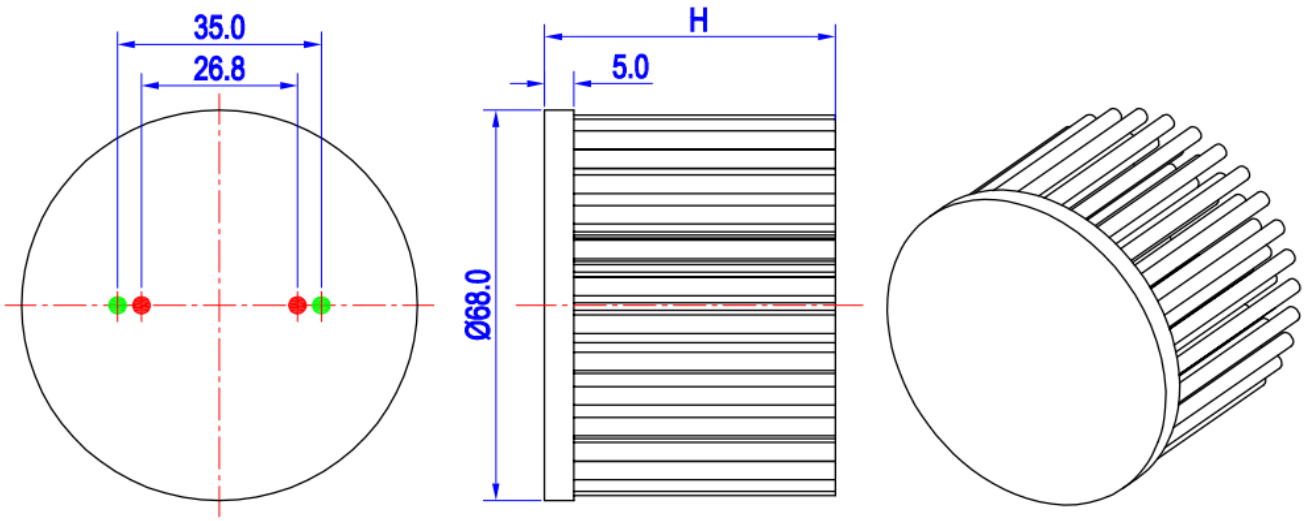
**3** **Mounting Options - see graphics for details Combinations available**

**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. | LEDiL products | | THREAD | THREAD DEPTH | THREAD HOLE DISTANCE |
|---|---|---|---|---|---|---|---|
| | | | Lenina Series | Lena series | | | |
| 1 | CXM-11; CIM/CLM/CXM-14 | / | CN12xxx; C12xxx; | CN12xxx; | M3 | 6.5mm | 26.8mm/ 2-@180° |
| 2 | CXM-11; CIM/CLM/CXM-14 | BJB Holder 47.319.2021.50 | CN12xxx; C12xxx; | CN12xxx; | M3 | 6.5mm | 35.0mm/ 2-@180° (Zhaga book 3) |
| 2 | CXM-11; CIM/CLM/CXM-14 | TE Holder 2213254-1 | CN12xxx; C12xxx; | CN12xxx; | M3 | 6.5mm | 35.0mm/ 2-@180° (Zhaga book 3) |
| 2 | CXM-18; | BJB Holder 47.319.2280.50 | / | CN12xxx; | M3 | 6.5mm | 35.0mm/ 2-@180° (Zhaga book 3) |
| 2 | CXM-18; | TE Holder 2213258-1 | / | CN12xxx; | M3 | 6.5mm | 35.0mm/ 2-@180° (Zhaga book 3) |

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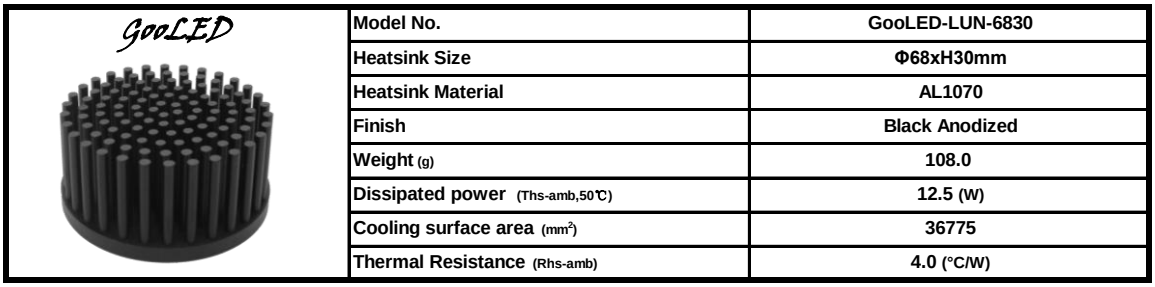
## GooLED-LUN-6830 Pin Fin LED Heat Sink Φ68mm for Luminus

### The product deta table




| | |
|---|---|
| Model No. | GooLED-LUN-6830 |
| Heatsink Size | Φ68xH30mm |
| Heatsink Material | AL1070 |
| Finish | Black Anodized |
| Weight (g) | 108.0 |
| Dissipated power (Ths-amb,50℃) | 12.5 (W) |
| Cooling surface area ($mm^2$) | 36775 |
| Thermal Resistance (Rhs-amb) | 4.0 (°C/W) |

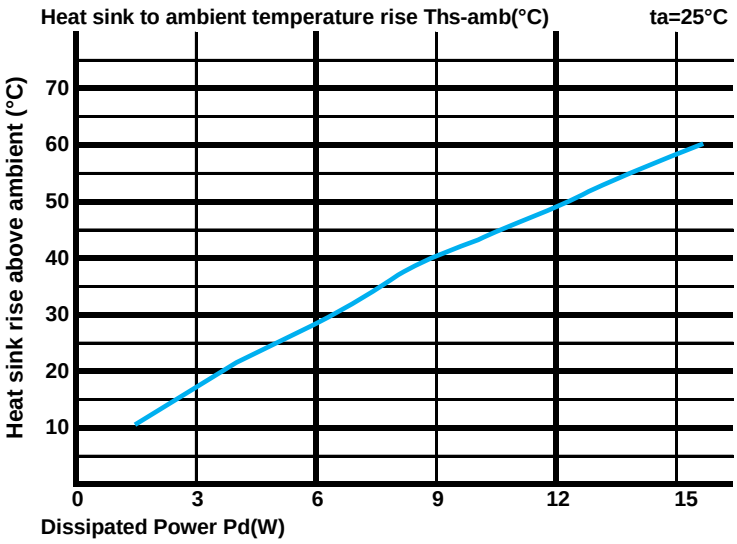
### The thermal data table

* 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;

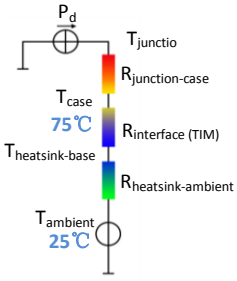
| Pd = Pe x (1-ηL) | | Heat sink to ambient thermal resistance Rhs-amb (°C/W) | Heat sink to ambient temperature rise Ths-amb (°C) |
|---|---|---|---|
| | | GooLED-LUN-6830 | |
| Dissipated Power Pd(W) | 3.0 | 5.67 | 17.0 |
| | 6.0 | 4.67 | 28.0 |
| | 9.0 | 4.44 | 40.0 |
| | 12.0 | 4.08 | 49.0 |
| | 15.0 | 3.87 | 58.0 |




*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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