

GOOLED

GooLED-CIT-6860 Pin Fin Heat Sink Φ68mm for Citizen

Features VS Benefits

- * The GooLED-CIT-6860 Citizen Pin Fin LED Heat Sinks are specifically designed for luminaires using the Citizen 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 1,000 to 2,800 lumen.
- * Thermal resistance range Rth 2.94°C/W.
- * Modular design with mounting holes foreseen for direct mounting of citizen COB series.
- * Diameter 68mm standard height 60mm 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 Citizen 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.







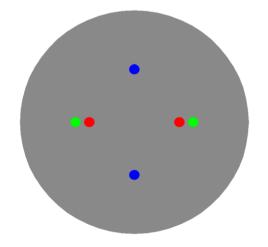












Citizen LED Modules directly Mounting Options Citizen COB version 4, version 5, version 6 Series:

CLU046-12xxxx; CLU048-12xxxx; CLU048-18xxxx; CLU048-18xxxx;

Citizen High intensity COB Series:

CLU731-12xxxx;

With the Zhaga Book 3 holders for the green indicator marks. BJB holder: 47.319.2030.50; AAG.STUCCHI: 8102-G2 Without the holders for the blue indicator marks. Direct mounting with machine screws M3x6.5mm.

Citizen LED Modules directly Mounting Options

Citizen COB version 4, version 5, version 6 Series:

CLU036-12xxxx

CLU038-12xxxx

Citizen High intensity COB Series:

CLU721-12xxxx

CLU711-12xxxx

With the Zhaga Book 3 holders for the green indicator marks. BJB holder: 47.319.2021.50; AAG.STUCCHI: 8101-G2 Without the holders for the red indicator marks. Direct mounting with machine screws M3x6.5mm.

With the LEDiL products: Olivia series: FN14637-S

Ronda series: FN15xxx-xx







GooLED-CIT-6860 Pin Fin Heat Sink Φ68mm for Citizen

Mounting Options and Drawings & Dimensions

Example:GooLED-CIT-6860-B-1,2

Example:GooLED-CIT-68 1 - 2 - 3

1 Height (mm)

Anodising Color

B-Black

C-Clear

Z-Custom

Mounting Options - see graphics for details Combinations available

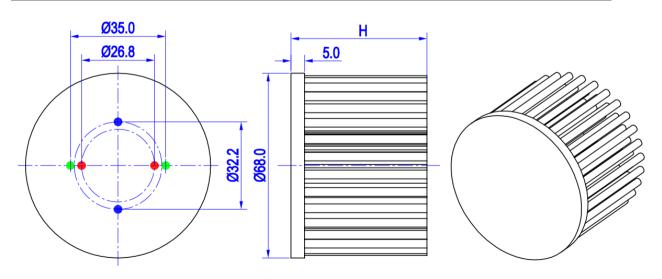
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means option 1 and 2 combined

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 | CLU036; CLU038 CLU721; CLU711 | 1 | FN14637-S | FN15xxx-xx; | М3 | 6.5mm | 26.8mm/ 2-@180° |
| 2 | · CLU046; CLU048 CLU731 | / | / | / | M3 | 6.5mm | 32.2mm/ 2-@180° |
| 3 | | BJB Holder 47.319.2030.50 | / | / | • МЗ | 6.5mm | 35.0mm/ 2-@180° (Zhaga book 3) |
| | | AAG.STUCCHI 8102-G2 | | | | | |
| | CLU036; CLU038 CLU721; CLU711 | BJB Holder 47.319.2021.50 | FN14637-S | FN15xxx-xx; | | | |
| | | AAG.STUCCHI 8101-G2 | | | | | |



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The product deta table

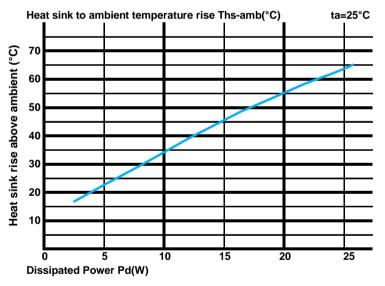


| MadalNa | On all ED OIT 2000 | | |
|--------------------------------|--------------------|--|--|
| Model No. | GooLED-CIT-6860 | | |
| Heatsink Size | Ф68хH60mm | | |
| Heatsink Material | AL1070 | | |
| Finish | Black Anodized | | |
| Weight (g) | 176.0 | | |
| Dissipated power (Ths-amb,50℃) | 17.0 (W) | | |
| Cooling surface area (mm²) | 70017 | | |
| Thermal Resistance (Rhs-amb) | 2.94 (°C/W) | | |

The thermal data table

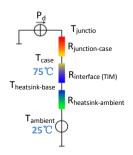
- * Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- *To calculate the dissipated power please use the following formula: $Pd = Pe \times (1-\eta L)$.
 - Pd Dissipated power ; Pe Electrical power ; $\eta L = \text{Light effciency of the LED module};$

| Pd = Pe x (1-ηL) | | Heat sink to ambient thermal resistance Rhs-amb (°C/W) | Heat sink to ambient temperature rise Ths-amb (°C) | |
|------------------------|------|--|--|--|
| | | GooLED-CIT-6860 | | |
| Dissipated Power Pd(W) | 5.0 | 4.60 | 23.0 | |
| | 10.0 | 3.40 | 34.0 | |
| | 15.0 | 3.00 | 45.0 | |
| | 20.0 | 2.75 | 55.0 | |
| | 25.0 | 1.84 | 46.0 | |



- *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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