



EtraLED-LUN-7080 Luminus Modular Passive Star Heat Sink Φ70mm

Features VS Benefits

- * The EtraLED-LUN-7080 Luminus Passive Star 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 1400 to 3,600 lumen.
- * Thermal resistance range Rth 2.08°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Luminus COB series.
- * Diameter 70mm standard height 80mm, 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 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.







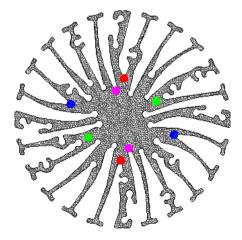


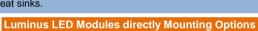












Luminus COB series.

CIM/ CLM/CXM-9 -AC;

TE Connectivity Holder: 2213678-5; BJB Holder:47.319.6060.50;

Direct mounting with machine screws M3x6.5mm

Luminus COB series.

Direct mounting with machine screws M3x6.5mm.

Lena series: CN12xxx; Lenina series: CN12xxx; C12xxx;





Mounting Options and Drawings & Dimensions

Example:EtraLED-LUN-7080-B-1,2

Example:EtraLED-LUN-70 1 - 2 -

1 Height (mm)

Anodising Color

B-Black

C-Clear

Z-Custom

Mounting Options - see graphics for details Combinations available

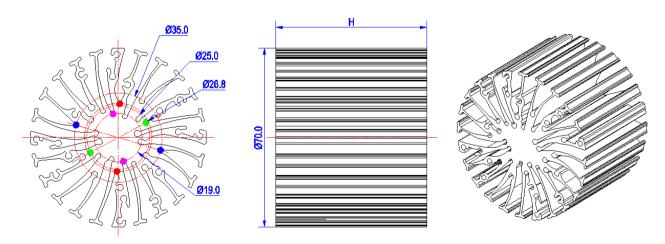
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means option 1 and 2 combined

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 |
|--------------------|----------------------------------|------------------------------|---------------------|---------------------|--------|--------|------------------------------------|
| | | | Lenina Series | Lena series | INCAD | DEPTH | DISTANCE |
| 1 | CXM-6-AC; CIM/ CLM/CXM-9 -AC; | / | CN14xxx; C12xxx; | CN14xxx; C12xxx; | М3 | 6.5mm | 19.0mm/ 2-@180° |
| 2 | | BJB Holder 47.319.6060.50 | | | МЗ | 6.5mm | 25.0mm/ 2-@180° (Zhaga book 11) |
| | | TE Holder 2213678-5 | | | | | |
| 3 | CXM-11; CIM/CLM/CXM-14 | / | CN12xxx; C12xxx; | CN12xxx; | М3 | 6.5mm | 26.8mm/ 2-@180° |
| 4 | | BJB Holder 47.319.2021.50 | | | МЗ | 6.5mm | 35.0mm/ 2-@180° (Zhaga book 3) |
| | | TE Holder 2213254-1 | | | | | |







EtraLED

EtraLED-LUN-7080 Luminus Modular Passive Star Heat Sink Ф70mm

The product deta table

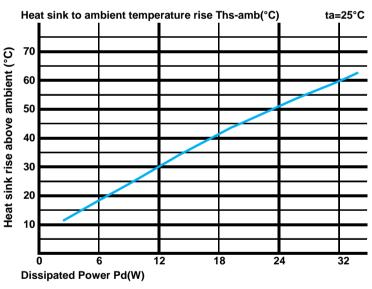


| Model No. | EtraLED-LUN-7080 | | |
|--------------------------------|------------------|--|--|
| Heatsink Size | Ф70хH80mm | | |
| Heatsink Material | AL6063-T5 | | |
| Finish | Black Anodized | | |
| Weight (g) | 192.0 | | |
| Dissipated power (Ths-amb,50℃) | 24.0 (W) | | |
| Cooling surface area (mm²) | 124837 | | |
| Thermal Resistance (Rhs-amb) | 2.08 (°C/W) | | |

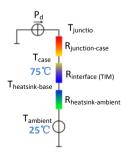
The thermal data table

- * 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: $Pd = Pe \times (I \eta L)$.
 - Pd Dissipated power ; Pe Electrical power ; $\eta L =$ 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) | | |
|------------------------|------|--|--|--|--|
| | | EtraLED-LUN-7080 | | | |
| Dissipated Power Pd(W) | 6.0 | 3.00 | 18.0 | | |
| | 12.0 | 2.50 | 30.0 | | |
| | 18.0 | 2.28 | 41.0 | | |
| | 24.0 | 2.08 | 50.0 | | |
| | 32.0 | 1.84 | 59.0 | | |



- *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: $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

Tel:+86-769-39023131
Fax:+86-(020)28819702 ext:22122
Email:sales@mingfatech.com
Http://www.heatsinkled.com
Http://www.mingfatech.com

