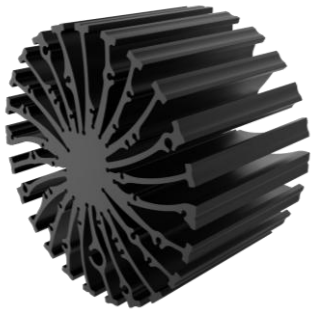
EtraLED

EtraLED-LG-13080 LG Innotek Modular Passive Star Heat Sink Φ130mm

Features VS Benefits

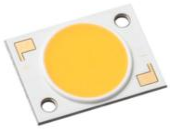


* The EtraLED-LG-13080 LG Innotek Modular Passive Star LED Heat Sinks are specifically designed for luminaires using the LG Innotek LED engines.
* Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
* For spotlight and downlight designs from 3600 to 9,000 lumen.
* Thermal resistance range Rth 0.83°C/W.
* Modular design with mounting holes foreseen for direct mounting of LG Innotek COB series.
* Diameter 130.0mm - standard height 80.0mm Other heights on request.
* Forged from highly conductive aluminum.

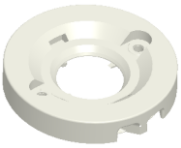
Zhaga LED engine and radiator assembly is a unified future international standardization

* Below you find an overview of LG Innotek 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.

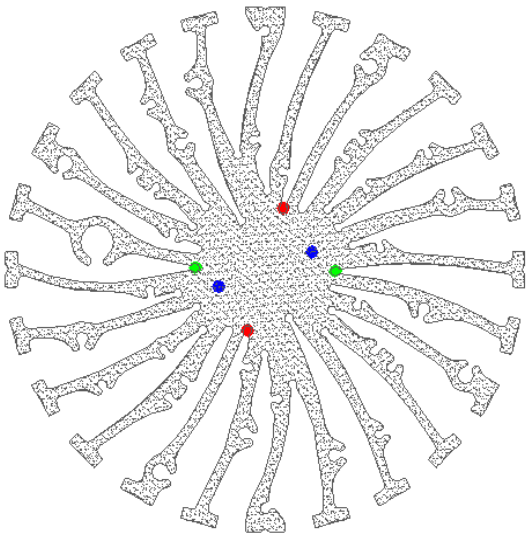
LG Innotek



BJB



TE connectivity



LG Innotek LED Modules directly Mounting Options

LG Innotek 7W&10W COB series.

LEMWM19480xxxxxx;
LEMWM19490xxxxxx;
LEMWM19680xxxxxx;
LEMWM19690xxxxxx;

With the Zhaga Book 3 holders for the green indicator marks.
TE Connectivity Holder: 2213382-1;
Without the holders for the blue indicator marks.
Direct mounting with machine screws M3x6.5mm.

LG Innotek 16W&21W COB series.

LEMWM24780xxxxxx;
LEMWM24790xxxxxx;
LEMWM24980xxxxxx;
LEMWM24990xxxxxx;

With the Zhaga Book 3 holders for the green indicator marks.
TE Connectivity Holder: 2213130-1;
BJB Holder:47.319.2011.50;
Without the holders for the red indicator marks.
Direct mounting with machine screws M3x6.5mm.

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Mingfa TECH

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Mounting Options and Drawings & Dimensions

Example:EtraLED-LG-13080-B-1,2

Example:EtraLED-LG-130 1 - 2 - 3

1 Height (mm)

2 Anodising Color

B-Black

C-Clear

Z-Custom

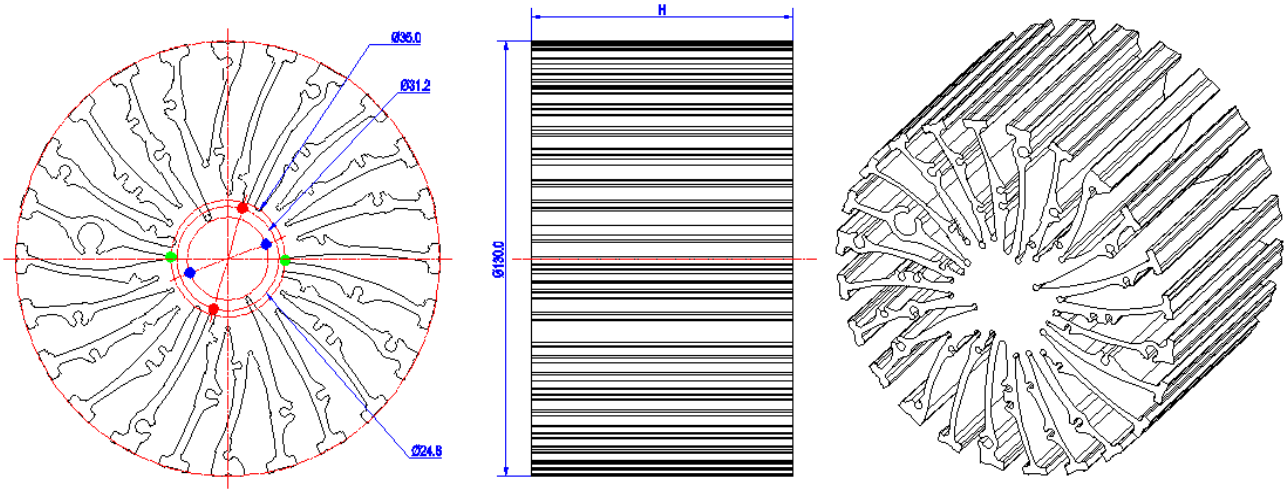
3 Mounting Options - see graphics for details Combinations available

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	7W&10W COB	/	M3	6.5mm	24.8mm/ 2-@180°
2	16W&21W COB	/	M3	6.5mm	31.2mm/ 2-@180°
3		BJB Holder 47.319.2011.50	M3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
		TE Holder 2213130-1			
	7W&10W COB	TE Holder 2213382-1			



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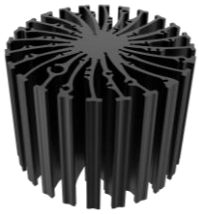
The product deta table

EtraLED		
	**Model No.**	**EtraLED-LG-13080**
	Heatsink Size	**Φ130xH80mm**
	Heatsink Material	**AL6063-T5**
	Finish	**Black Anodized**
	Weight (g)	**1108.0**
	Dissipated power (Ths-amb,50℃)	**60.0** (W)
	Cooling surface area (mm^2)	**245462**
	Thermal Resistance (Rhs-amb)	**0.83** (°C/W)

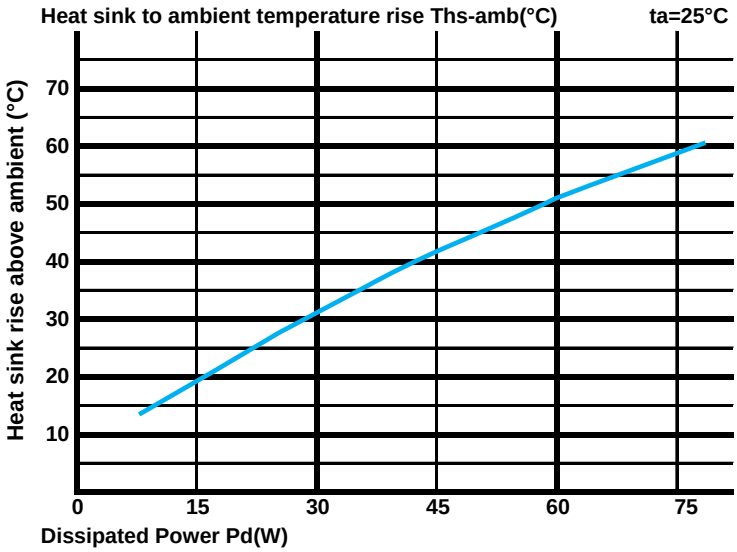
The thermal data table

* 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;

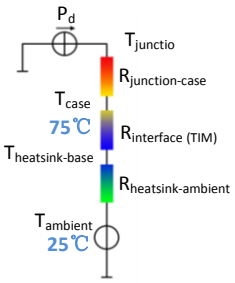
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		EtraLED-LG-13080	
Dissipated Power Pd(W)	15.0	1.20	18.0
	30.0	1.00	30.0
	45.0	0.93	42.0
	60.0	0.83	50.0
	75.0	0.77	58.0



*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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