GooLED

GooLED-OSR-7830 Pin Fin Heat Sink Φ78mm for Osram

Features VS Benefits

* The GooLED-OSR-7830 Osram Pin Fin LED Heat Sinks are specifically designed for luminaires using the Osram 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 2,700 lumen.
* Thermal resistance range Rth 3.03°C/W.
* Modular design with mounting holes foreseen for direct mounting of Osram LED engines.
* Diameter 78.0mm - standard height 30.0mm, Other heights on request.
* Forged from highly conductive aluminum.

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

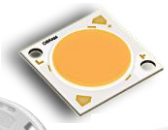
* Below you find an overview of Osram COB's and LED modules which standard fit on the Pin Fin LED Heat Sinks.
* In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED Pin Fin LED Heat Sink.

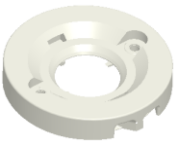
OSRAM
Opto Semiconductors

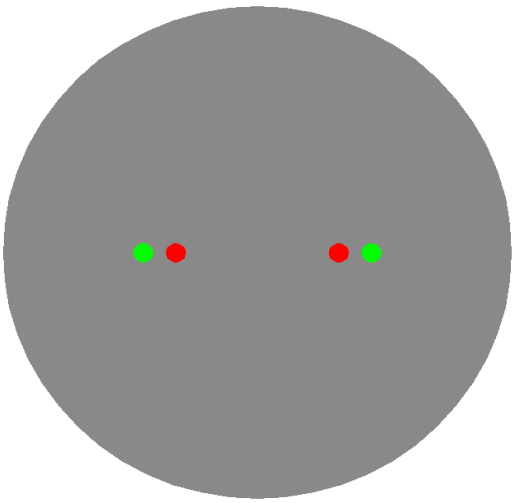
BJB

TE connectivity

LEDiL







Osram LED Modules directly Mounting Options

Osram SOLERIQ® S 13 COB LED modules name:

GW KAGGxx.xx; GW KAGLxx.xx;
GW KAGHxx.xx; GW KAGMxx.xx;
GW KAGJxx.xx;

With the Zhaga Book 3 Holders:
BJB holder:47.319.2021.50;
TE LED Holder:2213254-1;
Direct mounting with machine screws M3x6.5mm, green indicator marks.

Osram SOLERIQ® S 9 COB LED modules name:

GW KAFGxx.xx;
GW KAFHxx.xx;
GW KAFJxx.xx;

With the Zhaga Book 11 Holders:
BJB holder:47.319.6060.50;
TE LED Holder:2213678-5;
Direct mounting with machine screws M3x6.5mm, Red indicator marks.
With the LEDiL products:
Lenins series: CN14xxx; CN13xxx; CN12xxx;
Ronda series: FN15xxx-xx;

Osram PrevaLED Core Z5, Z6, Z7 L15 H1 and AC PRO LED modules name:

PL-CORE-Z5 -2000-xxx; PL-CORE-G7 2000-xxx L15 H1;
PL-CORE-Z5 -3000-xxx; PL-CORE-G7 3000-xxx L15 H1;
PL-CORE-Z6 -2000-xxx; PL-CORE AC PRO -2000-xxx;
PL-CORE-Z6 -3000-xxx; PL-CORE AC PRO -3000-xxx;

With the Zhaga Book 3 standard:
Direct mounting with machine screws M3x6.5mm, green indicator marks.

Osram PrevaLED Core Z6 Mini LED modules name:

PL-CORE-Z6-MINI -2000-xxx;
PL-CORE-Z6-MINI -3000-xxx;

With the Zhaga Book 11 standard:
Direct mounting with machine screws M3x6.5mm, Red indicator marks.

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Mounting Options and Drawings & Dimensions

Example:GooLED-OSR-7830-B-1,2

Example:GooLED-OSR-78 1 - 2 - 3

1 **Height (mm)**

2 **Anodising Color**

B-Black

C-Clear

Z-Custom

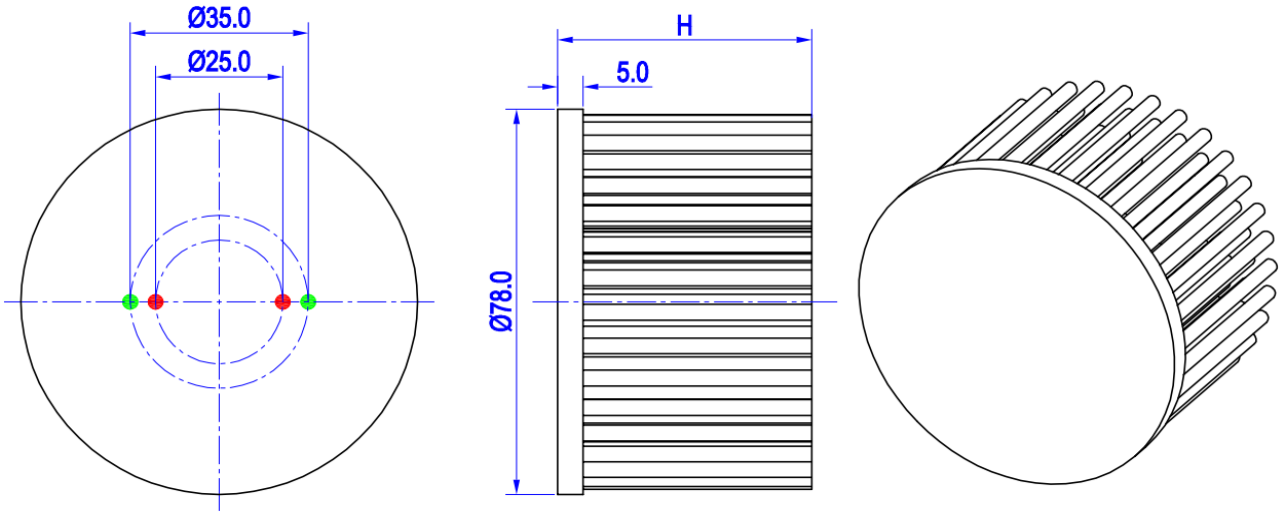
3 **Mounting Options - see graphics for details Combinations available**

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	Ronda series			
N	/	None	None	None	None	None	None
1	SOLERIQ® S 9	BJB Holder 47.319.6060.50 TE Holder 2213678-5	CN14xxx; CN13xxx; CN12xxx;	FN15xxx-xx	M3	6.5mm	25.0mm/ 2-@180° (Zhaga book 11)
	Z6 Mini	/	/	/			
2	Z5; Z6; Z7 L15 H1; AC PRO;	/			M3	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
	SOLERIQ® S 13	BJB Holder 47.319.2021.50 TE Holder 2213254-1	CN14xxx; CN13xxx; CN12xxx;	FN15xxx-xx			



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The product deta table

Model No.	GooLED-OSR-7830
Heatsink Size	Φ78xH30mm
Heatsink Material	AL1070
Finish	Black Anodized
Weight (g)	138.0
Dissipated power (Ths-amb,50℃)	16.5 (W)
Cooling surface area (mm^2)	46643
Thermal Resistance (Rhs-amb)	3.03 (°C/W)

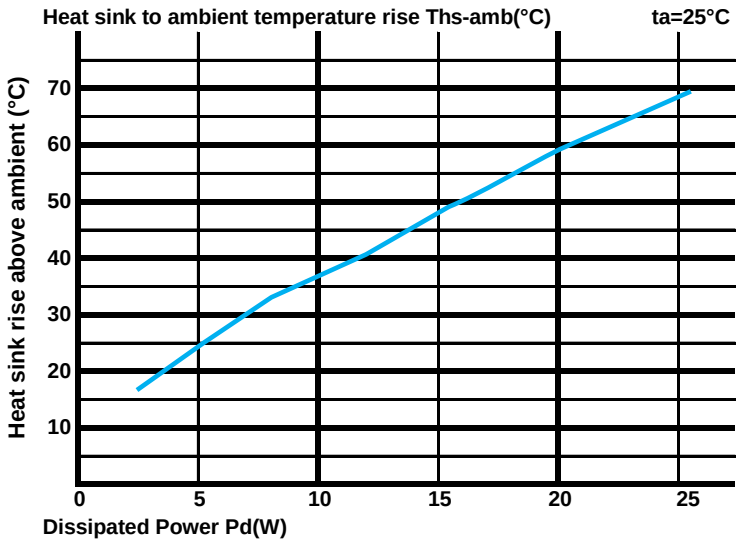
The thermal data table

* 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;

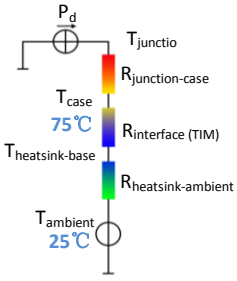
Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		GooLED-OSR-7830	
Dissipated Power Pd(W)	5.0	4.80	24.0
	10.0	3.60	36.0
	15.0	3.13	47.0
	20.0	2.95	59.0
	25.0	2.72	68.0



*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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