

GOOLED

GooLED-LUM-7850 Pin Fin Heat Sink Φ78mm for LumiLEDs

Features VS Benefits

- * The GooLED-LUM-7850 LumiLEDs Pin Fin LED Heat Sinks are specifically designed for luminaires using the LumiLEDs 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 1,200 to 3,500 lumen.
- * Thermal resistance range Rth 2.33°C/W.
- * Modular design with mounting holes foreseen for direct mounting of LumiLEDs COB series.
- * Diameter 78mm standard height 50mm Other heights on request.
- * Forged from highly conductive aluminum.

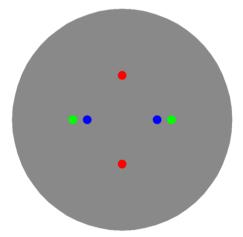
Zhaga LED engine and radiator assembly is a unified future international standardization

- * Below you find an overview of LumiLEDs 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.









LumiLEDs LED Modules directly Mounting Options LumiLEDs COB series.

LUXEON CoB 1205HD: L2C5-xxxx1205E1100; LUXEON CoB 1204HD: L2C5-xxxx1204E0900

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

LumiLEDs COB series.

LUXEON CoB 1208: L2C5-xxxx1208E1500;

LUXEON CoB 1205: L2C5-xxxx1205E1300;

LUXEON CoB 1204: L2C5-xxxx1204E1300;

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

With the LEDiL products:

Olivia series: FN14637-S; FN14828-M

LuXEon CX Plus CoB series.

LUXEON CoB L08: L2C4-xxxx-L08E1400;

LUXEON CoB L05: L2C4-xxxx-L05E1200

With the These Book 2 holders for the groop indicat

TE Connectivity Holder: 2213401-1

BJB Holder:47.319.2131.50

Direct mounting with machine screws M3x6.5mm





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Mounting Options and Drawings & Dimensions

Example:GooLED-LUM-7850-B-1,2

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

1 Height (mm)

Anodising Color

B-Black

C-Clear

Z-Custom

Mounting Options - see graphics for details Combinations available

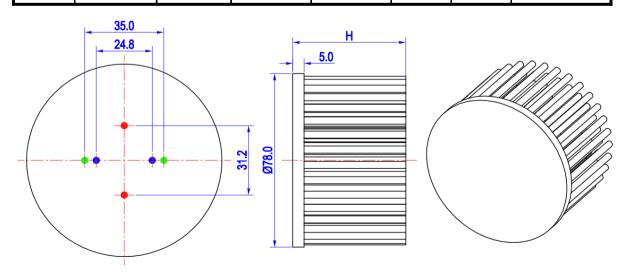
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means option 1 and 2 combined

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
			Stella Series	Olivia series	INCAD	DEPTH	DISTANCE
1	LUXEON 1204HD; LUXEON 1205HD;	/	1	FN14637-S; FN14828-M;	МЗ	6.5mm	24.8mm/ 2-@180°
2	LUXEON 1204; LUXEON 1205; LUXEON 1208;	/			М3	6.5mm	31.2mm/ 2-@180°
3		BJB Holder 47.319.2011.50			мз	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
		TE Holder 2213130-1					
	LUXEON 1204HD; LUXEON 1205HD;	TE Holder 2213382-1		/			
	LUXEON L04; LUXEON L05; LUXEON L08;	BJB Holder 47.319.2131.50					
		TE Holder 2213401-1					



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The product deta table

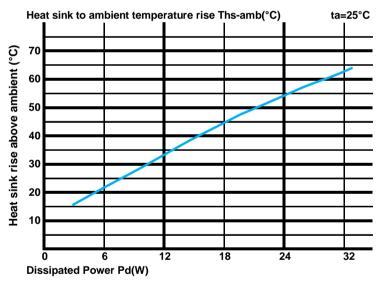


Model No.	GooLED-LUM-7850		
Heatsink Size	Ф78хH50mm		
Heatsink Material	AL1070		
Finish	Black Anodized		
Weight (g)	197.0		
Dissipated power (Ths-amb,50℃)	21.5 (W)		
Cooling surface area (mm²)	75332		
Thermal Resistance (Rhs-amb)	2.33 (°C/W)		

The thermal data table

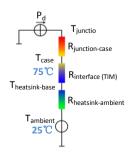
- * Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- *To calculate the dissipated power please use the following formula: $Pd = Pe \times (1-\eta L)$.
 - Pd Dissipated power ; Pe Electrical power ; $\eta L = \text{Light effciency of the LED module};$

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-LUM-7850		
(W)	6.0	3.50	21.0	
er Pd(12.0	2.67	32.0	
Dissipated Power Pd(W)	18.0	2.44	44.0	
	24.0	2.25	54.0	
	32.0	1.97	63.0	



- *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: $\theta = (Ths Ta)/Pd$
- 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 $R_{interface (TIM)}[^{\circ}C/M]$, the thermal resistance with the heat sink is $R_{heatsink-ambient}[^{\circ}C/M]$, and the ambient temperature is $T_{ambient}[^{\circ}C]$.
- *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:

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

