

- * 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 2,500 to 7,000 lumen.
- * Thermal resistance range Rth 1.14°C/W.
- * Modular design with mounting holes foreseen for direct mounting of LumiLEDs COB series.
- * Diameter 110mm 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 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 1216: L2C5-xxxx1216E2300; LUXEON CoB 1211: L2C5-xxxx1211E1900;

With the Zhaga Book 3 holders for the green indicator marks. TE Connectivity Holder: 2213480-1; BJB Holder:47.319.2030.50; 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; 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; Stella Series: FN14637-S; FN14828-M; Stella Series: FN13xxx-xx; FN14xxx-xx; FN15xxx-xx; Stella Series mounting hole for the pink indicator marks. Direct mounting with machine screws M4x8.5mm.







Exar	mple:GooLED-LUM-110
1	Height (mm)
2	Anodising Color
	B-Black
	C-Clear
	Z-Custom

Ex.order code - 12

Notes:

3

2

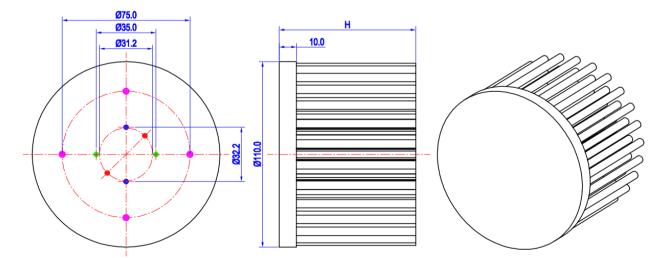
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.
- means option 1 and 2 combined

details Combinations available

Mounting Options - see graphics for

- MingfaTech reserves the right to change products or specifications without prior notice.

Mounting Option	Module type	Holder NO.	LEDiL products		THREAD	THREAD	THREAD HOLE
	wodule type		Stella Series	Olivia series	INKEAD	DEPTH	DISTANCE
1	LUXEON 1205; LUXEON 1208;	/	FN13xxx-xx; FN14xxx-xx; FN15xxx-xx;		M3	6.5mm	31.2mm/ 2-@180°
2	LUXEON 1211; LUXEON 1216;	/			M3	6.5mm	32.2mm/ 2-@180°
3 -	LUXEON 1205; LUXEON 1208;	BJB Holder 47.319.2011.50		FN14637-S; FN14828-M;	M3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
		TE Holder 2213130-1					
	LUXEON 1211; LUXEON 1216;	BJB Holder 47.319.2030.50					
		TE Holder 2213480-1					
4	LEDiL Lens	/	Stella Series	/	M4	8.5mm	75.0mm/ 4-@90°



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





GooLED-LUM-11080 Pin Fin Heat Sink Φ110mm for LumiLEDs

The product deta table

GooLED	Model No.	GooLED-LUM-11080
<i>J</i>	Heatsink Size	Ф110хН80mm
AL STREET, STR	Heatsink Material	AL1070
	Finish	Black Anodized
	Weight (g)	617.0
	Dissipated power (Ths-amb,50°C)	44.0 (W)
	Cooling surface area (mm ²)	129119
	Thermal Resistance (Rhs-amb)	1.14 (°C/W)

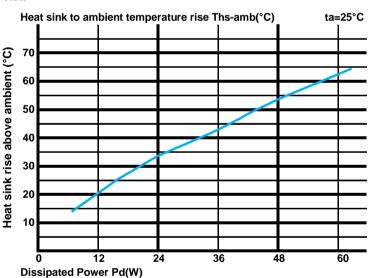
The thermal data table

* 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: $Pd = Pe \times (1 - \eta L)$.

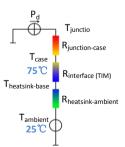
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

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-LUM-11080	
(M)	12.0	1.67	20.0
Dissipated Power Pd(W)	24.0	1.38	33.0
	36.0	1.17	42.0
	48.0	1.10	53.0
	60.0	1.03	62.0



*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: $\theta = (Ths - Ta)/Pd$

heta - 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 $R_{\text{interface (TIM)}}$ and $R_{\text{heatsink-ambient}}$ can be integrated into the thermal resistance $R_{\text{case-ambient}}$ 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

