

- \* Thermal resistance range Rth 3.85°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of LumiLEDs COB series.
- \* Diameter 70mm standard height 30mm 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.

- 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.

### LuXEon CX Plus CoB series.

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





- B-Black
- C-Clear
- Z-Custom

Ex.order code - 12

Mounting Options - see graphics for

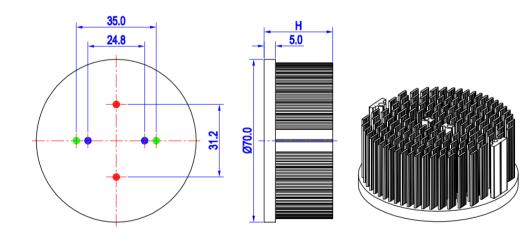
details Combinations available

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	INKEAD	DEPTH	DISTANCE
1	LUXEON 1204HD; LUXEON 1205HD;	/	/	FN14637-S; FN14828-M;	M3	6.5mm	24.8mm/ 2-@180°
2		/			M3	6.5mm	31.2mm/ 2-@180°
	LUXEON 1204; LUXEON 1205;	BJB Holder 47.319.2011.50			МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
3	LUXEON 1208;	TE Holder 2213130-1					
	LUXEON 1204HD; LUXEON 1205HD;	TE Holder 2213382-1		1			
	LUXEON L04; LUXEON L05; LUXEON L08;	BJB Holder 47.319.2131.50					
		TE Holder 2213401-1					



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# xLED-LUM-7030 Pin Fin Heat Sink Ø70mm for LumiLEDs

## The product deta table

xLED	Model No.	xLED-LUM-7030	
	Heatsink Size	Ф70xH30mm	
	Heatsink Material	AL1070	
	Finish	Black Anodized	
	Weight (g)	106.0	
	Dissipated power (Ths-amb,50℃)	13.0 (W)	
	Cooling surface area (mm <sup>2</sup> )	54786	
	Thermal Resistance (Rhs-amb)	3.85 (°C/W)	

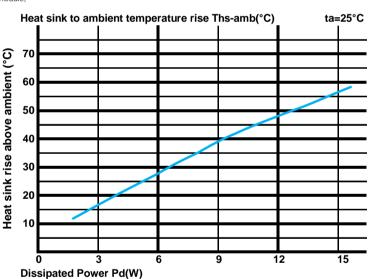
### The thermal data table

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

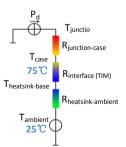
Pd - Dissipated power ; Pe - Electrical power ;  $\eta L$  = Light effciency of the LED module;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	
		xLED-LUM-7030		
Dissipated Power Pd(W)	3.0	5.33	16.0	
	6.0	4.50	27.0	
	9.0	4.33	39.0	
	12.0	3.92	47.0	
	15.0	3.73	56.0	



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

 $\theta\,$  - 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  $R_{nterface}$  (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:  $T_{junction}=(R_{junction-case}+R_{case-ambient})$ Pd+ $T_{ambient}$ 

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