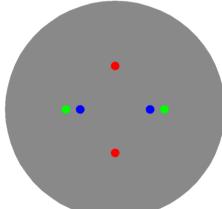


LuXEon CX Plus CoB series.



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Example:GooLED-LUM/7830-B-1,2 Example:GooLED-LUM-78 1 -

## Z-Custom

Ex.order code - 12

Mounting Options - see graphics for

details Combinations available

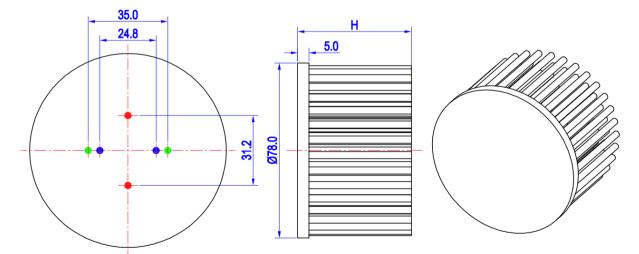
means option 1 and 2 combined

#### Notes:

3

- 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; LUXEON 1208;	BJB Holder 47.319.2011.50			МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
3		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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# GooLED-LUM-7830 Pin Fin Heat Sink Ø78mm for LumiLEDs

### The product deta table

GooLED	Model No.	GooLED-LUM-7830		
<i>y</i>	Heatsink Size	Ф78хН30mm		
	Heatsink Material	AL1070		
	Finish	Black Anodized		
	Weight (g)	138.0		
	Dissipated power (Ths-amb,50℃)	16.5 (W)		
	Cooling surface area (mm <sup>2</sup> )	46643		
	Thermal Resistance (Rhs-amb)	3.03 (°C/W)		

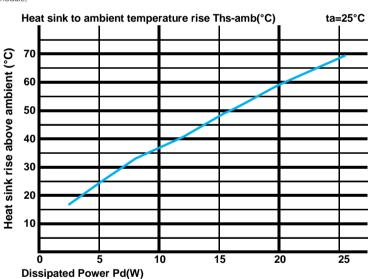
### The thermal data table

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

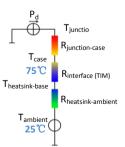
Pd - Dissipated power ; Pe - Electrical power ;  $\eta L$  = Light effciency of the LED module;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	
		GooLED-LUM-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:  $\theta = (Ths - Ta)/Pd$ 

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<sub>junction-case</sub>, the thermal resistance of the TIM outside the package is R<sub>interface (TIM)</sub> [°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:  $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$ 

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