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- 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 M3x6.5r
- With the LEDiL products:

LuXEon CX Plus CoB series.

- LUXEON CoB L08: L2C4-xxxx-L08E1400; LUXEON CoB L05: L2C4-xxxx-L05E1200; LUXEON CoB L04: L2C5-xxxx-L04E1200;
- With the Zhaga Book 3 holders for the green indicator marks
- TE Connectivity Holder: 2213401-1;
- BJB Holder:47.319.2131.50;
- Direct mounting with machine screws M3x6.5mm





Example:xLED-LUM-70				
1	Height (mm)			
2	Anodising Color			
	B-Black			
	C-Clear			
	Z-Custom			

Ex.order code - 12

Mounting Options - see graphics for

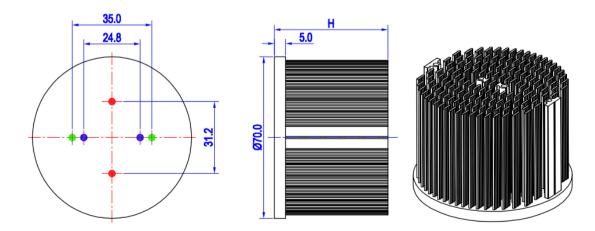
details Combinations available

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	Module type	Holder NO.	LEDiL products		THREAD	THREAD	THREAD HOLE	
OPTION	woulle type	noider NO.	Stella Series	Olivia series	INKEAD	DEPTH	DISTANCE	
1	LUXEON 1204HD; LUXEON 1205HD;	/			M3	6.5mm	24.8mm/ 2-@180°	
2	2 LUXEON 1204; LUXEON 1205; LUXEON 1208; 3 LUXEON 1204HD; LUXEON 1205HD;	/		FN14637-S;	M3	6.5mm	31.2mm/ 2-@180°	
		BJB Holder 47.319.2011.50		FN14828-M;				
		TE Holder 2213130-1	/	/				
3		TE Holder 2213382-1		1	M3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)	
LUXEON L04; LUXEON L05; LUXEON L08;	· · · ·	BJB Holder 47.319.2131.50						
	TE Holder 2213401-1							



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xLED-LUM-7050 Pin Fin Heat Sink Ø70mm for LumiLEDs

The product deta table

xLED	Model No.	xLED-LUM-7050
a si sisi si sisisi a	Heatsink Size	Φ70xH50mm
	Heatsink Material	AL1070
	Finish	Black Anodized
	Weight (g)	150.0
	Dissipated power (Ths-amb,50°C)	16.0 (W)
	Cooling surface area (mm ²)	91577
	Thermal Resistance (Rhs-amb)	3.13 (°C/W)

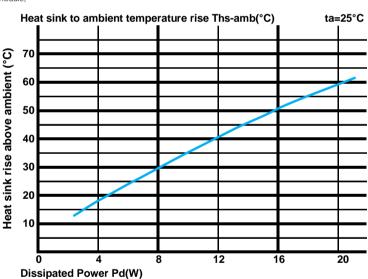
The thermal data table

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

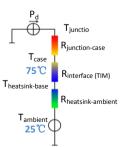
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		xLED-LUM-7050	
(M)	4.0	4.25	17.0
er Pd(8.0	3.63	29.0
d Pow	12.0	3.33	40.0
Dissipated Power Pd(W)	16.0	3.13	50.0
	20.0	2.95	59.0



*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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