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Mounting Options - see graphics for

Notes:

- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.

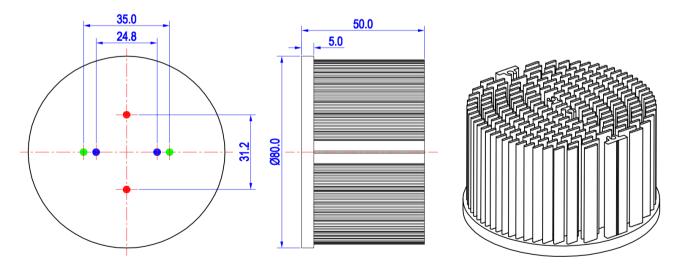
means option 1 and 2 combined

details Combinations available

Ex.order code - 12

- 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	7W&10W COB	/	į	FN14637-S; FN14828-M;	М3	6.5mm	24.8mm/ 2-@180°
2	16W&21W COB	/			М3	6.5mm	31.2mm/ 2-@180°
3		BJB Holder 47.319.2011.50			M3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
		TE Holder 2213130-1					
	7W&10W COB	TE Holder 2213382-1					



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xLED-LG-8050 Pin Fin Heat Sink Ø80mm for LG Innotek

The product deta table

xLED	Model No.	xLED-LG-8050	
and the statements	Heatsink Size	Ф80xH50mm	
	Heatsink Material	AL1070	
	Finish	Black Anodized	
	Weight (g)	197.0	
	Dissipated power (Ths-amb,50℃)	21.0 (W)	
	Cooling surface area (mm²)	120774	
	Thermal Resistance (Rhs-amb)	2.38 (°C/W)	

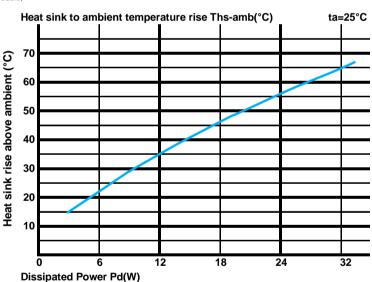
The thermal data table

* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.

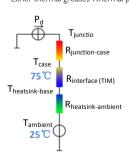
*To calculate the dissipated power please use the following formula: $Pd = Pe \times (I - \eta L)$.

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-LG-8050		
Dissipated Power Pd(W)	6.0	3.50	21.0	
	12.0	2.92	35.0	
	18.0	2.56	46.0	
	24.0	2.29	55.0	
	32.0	2.00	64.0	



*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 $R_{\text{junction-case}}$, the thermal resistance of the TIM outside the package is $R_{\text{interface (TIM)}}$ [°C/W], the thermal resistance with the heat sink is $R_{\text{heatsink-ambent}}$ [°C/W], and the ambient temperature is T_{ambent} [°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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