

Without the holders for the red indicator marks.

With the Zhaga Book 11 holders for the red indicator marks.

With the Zhaga Book 3 holders for the green indicator marks.

With the Zhaga Book 11 holders for the red indicator marks.

Direct mounting with machine screws M3x6.5mm. Samsung D Series LED modules name:

Direct mounting with machine screws M3x6.5mm.

Direct mounting with machine screws M3x6.5mm.

Samsung C Series LED modules name:

Samsung D Series LED modules name:

TE LED Holder: 2213678-5;

Olivia series: FN14828-M;

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Example:xLED-SAM-45

Ex.order code - 12

Notes:

2 - 3

- Mentioned models are an extraction of full product range.

- For specific mechanical adaptations please contact MingfaTech.

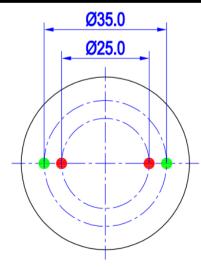
means option 1 and 2 combined

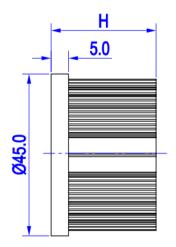
details Combinations available

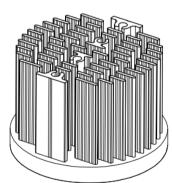
Mounting Options - see graphics for

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

MOUNTING OPTION	Module type	Holder NO.	LEDiL products		THREAD	THREAD	THREAD HOLE
			Olivia series	Ronda series	INKLAD	DEPTH	DISTANCE
N	/	None	None	None	None	None	None
1	L010C; L020C;	TE Holder 2213118-2	/	FN15xxx;	МЗ	6.5mm	25.0mm/ 2-@180° (Zhaga book 11)
	L003D; L006D; L009D; L013D;	BJB Holder 47.319.6294.50	FN14828-M; FN14637-S; /	/			
		TE Holder 2213678-5					
	L013B; L019B;	BJB Holder 47.319.6234.50					
2	L016D; L018D; L026D;	BJB Holder 47.319.2021.50	FN14828-M; FN14637-S;		M3	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		TE Holder 2213254-1					







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xLED-SAM-4530 Pin Fin LED Heat Sink Ø45mm for Samsung

The product deta table

xLED	Model No.	xLED-SAM-4530		
	Heatsink Size	Φ45xH30mm		
	Heatsink Material	AL1070		
	Finish	Black Anodized		
	Weight (g)	45.0		
	Dissipated power (Ths-amb,50°C)	7.0 (W)		
	Cooling surface area (mm ²)	22830		
	Thermal Resistance (Rhs-amb)	7.14 (°C/W)		

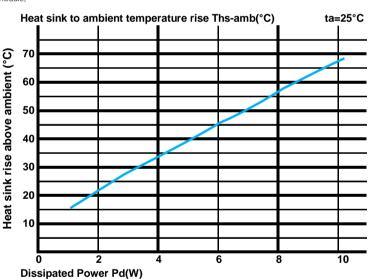
The thermal data table

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

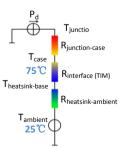
Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance	Heat sink to ambient temperature rise		
		Rhs-amb (°C/W)	Ths-amb (°C)		
		xLED-SAM-4530			
Dissipated Power Pd(W)	2.0	10.50	21.0		
	4.0	8.50	34.0		
	6.0	7.50	45.0		
	8.0	7.00	56.0		
	10.0	6.70	67.0		



*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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