

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

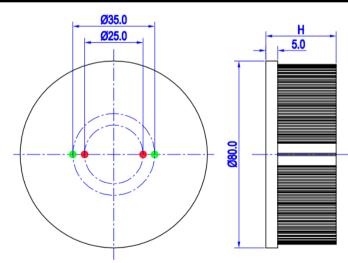


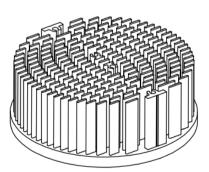


means option 1 and 2 combined

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

MOUNTING	Module type	Holder NO.	LEDiL products		THREAD	THREAD	THREAD HOLE
OPTION			Olivia series	Ronda series	INKEAD	DEPTH	DISTANCE
Ν	/	None	None	None	None	None	None
1	L026B; L033B; L040B;	/	/	/	M3	6.5mm	30.4mm/ 2-@180°
2		BJB Holder 47.319.2254.50			МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		TE Holder 2213258-1					
	L016D; L018D; L026D;	BJB Holder 47.319.2021.50	FN14828-M; FN14637-S;				
		TE Holder 2213254-1					
	L040C;	TE Holder 2213382-1	/	FN15xxx;			





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## xLED-SAM-8030 Pin Fin LED Heat Sink Φ80mm for Samsung

## The product deta table

xLED	Model No.	xLED-SAM-8030	
	Heatsink Size	Ф80хН30mm	
	Heatsink Material	AL1070	
	Finish	Black Anodized	
Carling and the second second	Weight (g)	140.0	
	Dissipated power (Ths-amb,50°C)	16.0 (W)	
	Cooling surface area (mm <sup>2</sup> )	72123	
	Thermal Resistance (Rhs-amb)	3.13 (°C/W)	

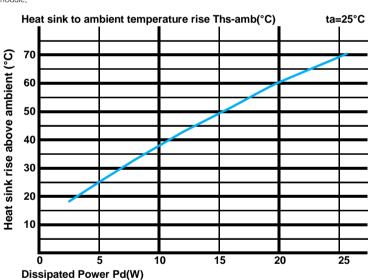
## The thermal data table

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

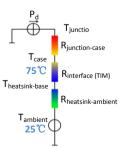
Pd - Dissipated power ; Pe - Electrical power ;  $\eta L$  = Light effciency of the LED module;

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-SAM-8030		
Dissipated Power Pd(W)	5.0	5.00	25.0	
	10.0	3.80	38.0	
	15.0	3.27	49.0	
	20.0	3.00	60.0	
	25.0	2.76	69.0	



\*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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