

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





Example:GooLED-SEO-7830-B-1,2 Example:GooLED-SEO-78 1 2 Height (mm) Anodising Color B-Black C-Clear

Z-Custom

Ex.order code - 12

## Notes:

3

- Mentioned models are an extraction of full product range.

- For specific mechanical adaptations please contact MingfaTech.

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19×19mm

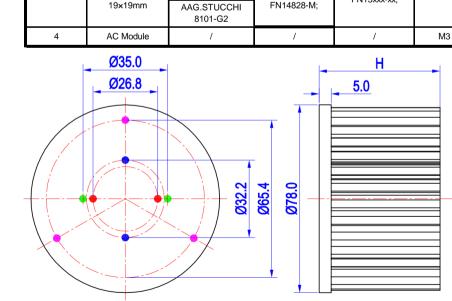
details Combinations available

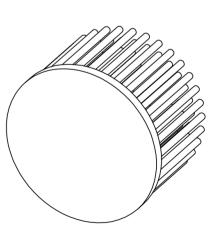
Mounting Options - see graphics for

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MOUNTING OPTION	Module type	Holder NO.	LEDIL products			THREAD	THREAD HOLE
			Olivia series	Ronda series	THREAD	DEPTH	DISTANCE
1	COB Size 19×19mm	/	FN14637-S; FN14828-M;	FN15xxx-xx;	M3	6.5mm	26.8mm/ 2-@180°
2	COB Size 28×28mm	/	1	/	M3	6.5mm	32.2mm/ 2-@180°
3 .		BJB Holder 47.319.2030.50		1	- МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		AAG.STUCCHI 8102-G2					
	COB Size	BJB Holder 47.319.2021.50	FN14637-S; FN14828-M <sup>.</sup>	FN15xxx-xx;			

FN14828-M;





65.4mm/ 3-@120°

6.5mm

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## GooLED-SEO-7830 Pin Fin Heat Sink Ø78mm for Seoul

## The product deta table

GooLED	Model No.	GooLED-SEO-7830	
J + +	Heatsink Size	Φ78xH30mm	
	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)	

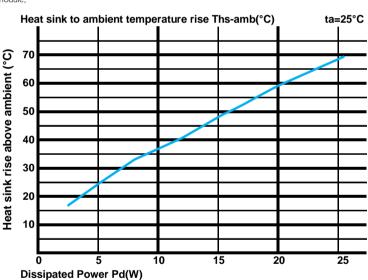
## The thermal data table

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

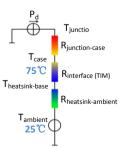
Pd - Dissipated power ; Pe - Electrical power ;  $\eta L$  = Light effciency of the LED module;

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-SEO-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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