

EtraLED

EtraLED-SEO-9650 Seoul Modular Passive Star LED Heat Sink Φ96mm

Features VS Benefits

- * The EtraLED-SEO-9650 Seoul Passive Star LED Heat Sinks are specifically designed for luminaires using the Seoul LED engines.
- * Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- * For spotlight and downlight designs from 2000 to 5,100 lumen.
- * Thermal resistance range Rth 1.45°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Seoul COB series.
- * Diameter 96.0mm standard height 50.0mm, Other heights on request.
- * Forged from highly conductive aluminum.

Zhaga LED engine and radiator assembly is a unified future international standardization

- * Below you find an overview of Seoul COB's and LED modules which standard fit on the srar LED heat sinks.
- * In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of srar LED heat sinks.







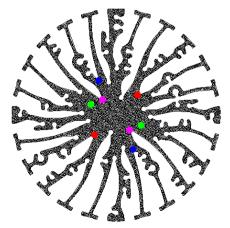














Seoul COB Series, Size 13.5×13.5mm. SDW01F1C; SDW81F1B; SDW81F1C:

With the Zhaga Book 11 holders for the green indicator marks. BJB holder: 47.319.6294.50; AAG.STUCCHI: 8100-G2 Direct mounting with machine screws M3x6.5mm

Seoul COB Series, Size 19×19mm.

SDW02F1C; SDW03F1C; SDW82F1C; SDW83F1C;

With the Zhaga Book 3 holders for the blue indicator marks. BJB holder: 47.319.2021.50; AAG.STUCCHI: 8101-G2 Direct mounting with machine screws M3x6.5mm

Olivia series: FN14637-S; FN14828-M; Ronda series: FN15xxx-xx;





Mounting Options and Drawings & Dimensions

Example: EtraLED-SEO-9650-B-1,2

Example:EtraLED-SEO-96 1 -

xample.EtraLED-3EO-96

1 Height (mm)

Anodising Color

B-Black

C-Clear

Z-Custom

Mounting Options - see graphics for details Combinations available

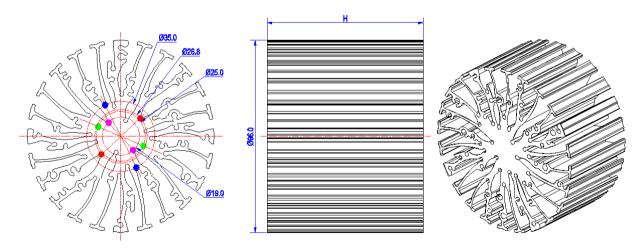
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means option 1 and 2 combined

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 OPTION	Module type	Holder NO.	LEDiL products		THREAD	THREAD	THREAD HOLE
			Olivia series	Ronda series	INCEAD	DEPTH	DISTANCE
1	COB Size 13.5×13.5mm	/	FN14637-S;	FN15972-xxx; FN15971-xxx; FN15969-xxx;	М3	6.5mm	19.0mm/ 2-@180°
2		BJB Holder 47.319.2021.50			МЗ	6.5mm	25.0mm/ 2-@180° (Zhaga book 11)
		AAG.STUCCHI 8101-G2					
3	COB Size 19x19mm	/	FN14637-S; FN14828-M;	FN15xxx-xx;	М3	6.5mm	26.8mm/ 2-@180°
4		BJB Holder 47.319.2021.50			МЗ	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		AAG.STUCCHI 8101-G2					





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The product deta table

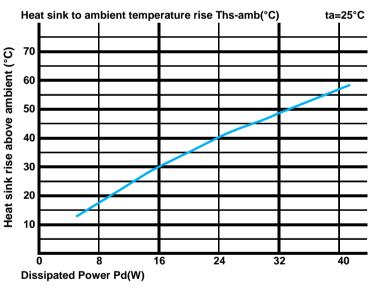


Model No.	EtraLED-SEO-9650		
Heatsink Size	Ф96xH50mm		
Heatsink Material	AL6063-T5		
Finish	Black Anodized		
Weight (g)	458.0		
Dissipated power (Ths-amb,50℃)	34.5 (W)		
Cooling surface area (mm²)	114836		
Thermal Resistance (Rhs-amb)	1.45 (°C/W)		

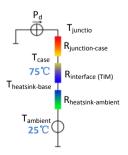
The thermal data table

- * 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)		
		EtraLED-SEO-9650			
Dissipated Power Pd(W)	8.0	2.25	18.0		
	16.0	1.88	30.0		
	24.0	1.67	40.0		
	32.0	1.50	48.0		
	40.0	1.40	56.0		



- *The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).
- $\label{thm:module} \mbox{MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.}$
- $Either thermal\ grease, A\ thermal\ pad\ or\ a\ phase\ change\ thermal\ pad\ thickness\ 0.1-0.15 mm\ is\ recommended.$



- *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: $\theta = (Ths Ta)/Pd$
- θ Thermal Resistance [°C/M]; 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 $R_{interface}(TIM)$ ["C,M"], the thermal resistance with the heat sink is $R_{heatsink-ambient}$ ["C,M"], 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: $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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