



# EtraLED-TRI-8580 Tridonic Modular Passive Star LED Heat Sink Ф

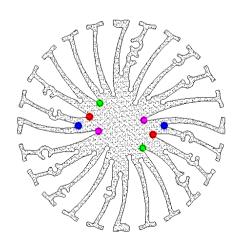
#### **Features VS Benefits**

- \* The EtraLED-TRI-8580 Tridonic Pin Fin LED Heat Sinks are specifically designed for luminaires using the Tridonic 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 34°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of Tridonic SLE series modules.
- \* Diameter 85.0mm standard height 80.0mm, 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 Tridonic 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.





### Tridonic LED Modules directly Mounting Options.

Modules SLE EXCITE, FOOD, ART, FASHION Series. Modules SLE ADVANCED, G6 ADV Series.

Direct mounting with machine screws M3x6.5mm

Modules SLE EXCITE, FASHION, TINGE series Modules SLE ADVANCED, G5 XD ADV and G6 ADV Series. Modules SLE ESSENCE, G6 SNC Series.

BJB holder: 47.319.2021.50; AAG.STUCCHI: 8101-G2 Without the holders for the red indicator marks.

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

#### Modules SLE EXCITE, FASHION, TINGE series. Modules SLE ADVANCED, G6 ADV Series.

SLE G6 10mm 1200lm-xxx

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

Direct mounting with machine screws M3x6.5mm.

With the LEDiL products:





## **Mounting Options and Drawings & Dimensions**

Example:EtraLED-TRI-8580-B-1,2

Example:EtraLED-TRI-85 1

Height (mm)

**Anodising Color** 

B-Black

C-Clear

Z-Custom

Mounting Options - see graphics for details Combinations available

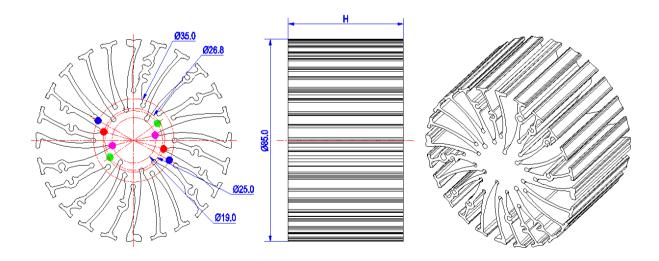
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means option 1 and 2 combined

#### **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.

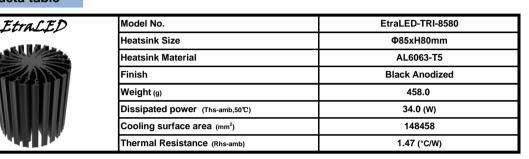
MOUNTING OPTION	Module type	Holder NO.	LEDiL products		THREAD	THREAD	THREAD HOLE
			Olivia Series	Ronda series	INCEAD	DEPTH	DISTANCE
1	SLE G6 10mm;	/	/	FN15xxx-xx;	М3	6.5mm	19.0mm/ 2-@180°
2		BJB Holder 47.319.6020.50			M3	6.5mm	25.0mm/ 2-@180° (Zhaga book 11)
3	SLE G6 15mm; SLE G6 17mm;	/	FN14637-S; FN14828-M;		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					







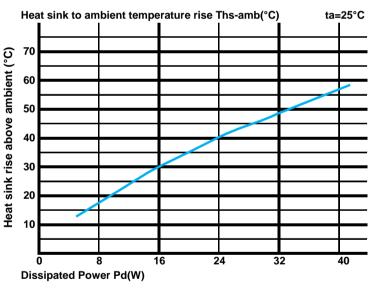
### The product deta table



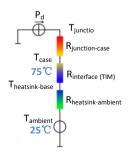
#### The thermal data table

- \* 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-TRI-8580			
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).
- $\label{thm:mingFar} \mbox{MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.}$
- $Either thermal\ grease, A\ thermal\ pad\ or\ a\ phase\ change\ thermal\ pad\ thickness\ 0.1-0.15 mm\ is\ recommended.$



- \*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:  $\theta = (Ths Ta)/Pd$
- $\theta$  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:  $T_{iunction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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