

EtraLED

EtraLED-SAM-4820 Samsung Modular Passive Star Heat Sink Φ48mm

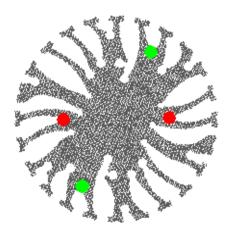
Features VS Benefits

- * The EtraLED-SAM-4820 Samsung Modular Passive Star LED Heat Sinks are specifically designed
- luminaires using the Samsung 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 300 to 1,000 lumen.
- * Thermal resistance range Rth 7.69°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Samsung LED engines.
- * Diameter 48.0mm standard height 20.0mm, 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 Samsung 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.





Samsung LED Modules directly Mounting Options

Samsung B Series LED modules name:

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

Without the holders for the red indicator marks.

Samsung D Series LED modules name:

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

BJB Holder: 47.319.6294.50; TE LED Holder: 2213678-5;

Direct mounting with machine screws M3x6.5mm.

Samsung D Series LED modules name:

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

Direct mounting with machine screws M3x6.5mm.

Olivia series: FN14828-M;

Samsung C Series LED modules name:

With the Zhaga Book 11 holders for the red indicator marks. TE LED Holder: 2213118-2;

Direct mounting with machine screws M3x6.5mm.

Ronda series: FN15xxx;





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Mounting Options and Drawings & Dimensions

Example: EtraLED-SAM-4820-B-1,2

Example:EtraLED-SAM-48 1 -

Example:EtraLED-SAM-48

1 Height (mm)

Anodising Color

B-Black

C-Clear

Z-Custom

Mounting Options - see graphics for details Combinations available

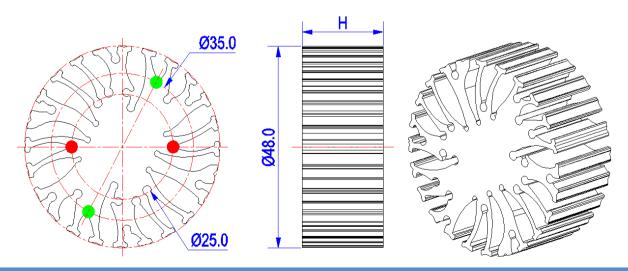
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means option 1 and 2 combined

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 HOLE
			Olivia series	Ronda series	THREAD	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;		М3	6.5mm	35.0mm/ 2-@180° (Zhaga book 3)
		TE Holder 2213254-1					



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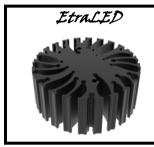




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The product deta table

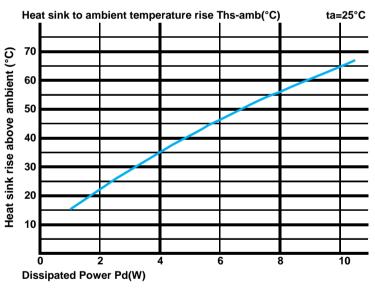


Model No.	EtraLED-SAM-4820		
Heatsink Size	Ф48xH20mm		
Heatsink Material	AL6063-T5		
Finish	Black Anodized		
Weight (g)	53.0		
Dissipated power (Ths-amb,50℃)	6.5 (W)		
Cooling surface area (mm²)	15945		
Thermal Resistance (Rhs-amb)	7.69 (°C/W)		

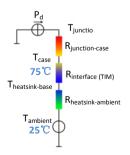
The thermal data table

- * 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-SAM-4820			
W)	2.0	11.00	22.0		
er Pd(4.0	8.75	35.0		
Dissipated Power Pd(W)	6.0	7.67	46.0		
	8.0	6.88	55.0		
	10.0	6.40	64.0		



- *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: $\theta = (Ths Ta)/Pd$
- 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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