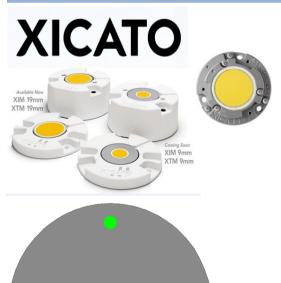


GOOLED

XSA-318 Pin Fin LED Heat Sink Φ48mm for Xicato

Features VS Benefits

- * The XSA-318 Xicato Pin Fin LED Heat Sinks are specifically designed for luminaires using the Xicato 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 600 to 1,800 lumen.
- * Thermal resistance range Rth 4.35°C/W.
- * Xicato Thermal Class E , (60° tilt angle, 40°C ambient) .
- * Modular design with mounting holes foreseen for direct mounting of Xicato XSA/ XIM/ XTM modules.
- * Diameter 48.0mm standard height 68.0mm,Other heights on request.
- * Forged from highly conductive aluminum.
- *The XSA-318 Xicato Pin Fin Heat Sink is standard foreseen from a variety of mounting holes which allow direct mounting of all Xicato Spot and down light LED modules and secondary optics on the Pin Fin LED heat sink.
- *In this way mechanical afterwork and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.
- *Below you find an overview of Xicato LED modules which standard fit on the XSA-318 Pin Fin LED Heat Sinks.
- *MingFa performs thermal validation tests on each of the LED modules mounted on the LED cooler and publishes.
- *This data in the Xicato Cooler thermal validation reports.
- *For a full overview of available LED coolers for Xicato LEDs, please refer to the Xicato LED cooler overview on.





Xicato LED Modules directly Mounting Options Xicato XSM LED modules name:

XSM8027-xxx; XSM9530-xxx; XSM8030-xxx; XSM9540-xxx; XSM9540-xxx; XSM9827-xxx; XSM9527-xxx;

Direct mounting with 3 screwsM3 x 12mm;

Green indicator marks.

Xicato XIM LED modules name :

XIM198030-xxx; XIM198030-xxx; XIM0980 xxxx; XIM0980 xxxx; Direct mounting with 3 screws M3 x 20mm;

Green indicator marks.

Xicato XTM LED modules:

XTM19-8027-xxx; XTM19-8040-xxx; XTM0995 xxxxx;

XTM19-8030-xxx; XTM19-V830-xxx; XTM09-V9xxxxx;

Direct mounting with 3 screws M3 x 10mm;

Green indicator marks.

Direct mounting by Zhaga mounting holes with 2 screws M3 x 8mm;

Red indicator marks.





Mounting Options and Drawings & Dimensions

Example: XSA-318-M3-B-1

Example: XSA-318-M3-

Anodising Color B-Black

> C-Clear Z-Custom

Mounting Options - see graphics for

details Combinations available

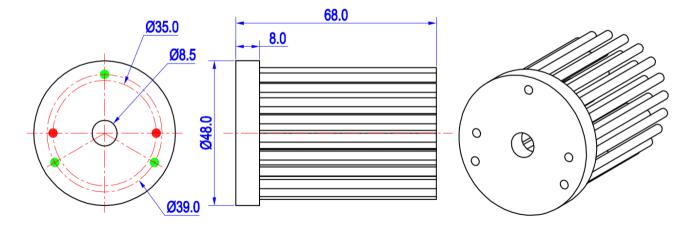
Ex.order code - 12

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.

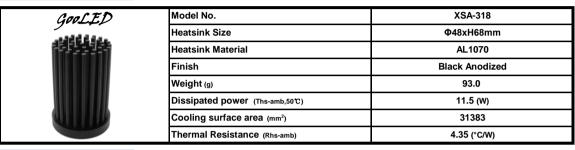
MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
N	XSA-318-M3-#-N	M3	6.5mm	39.0mm/ 3-@120°
1	XSA-318-M3-#-1	М3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
2	XSA-318-M3-#-2	M3	Ф8.5mm	Through-Hole







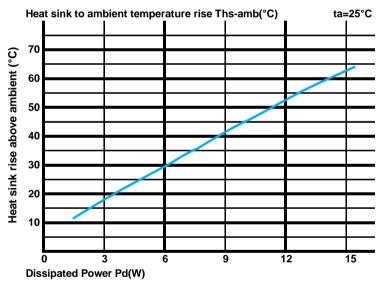
The product deta table



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 ; $\eta L = \text{Light effciency of the LED module};$

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		XSA-318	
Dissipated Power Pd(W)	3.0	6.00	18.0
	6.0	4.83	29.0
	9.0	4.56	41.0
	12.0	4.33	52.0
	15.0	4.13	62.0



- *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.
- T_{case}
 T_{case}
 Theatsink-base
 T_{ambient}
 T_{ambient}
 T_{ambient}
 T_{ambient}
 T_{ambient}
 T_{ambient}
 T_{ambient}
 T_{ambient}
- *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 $R_{\text{junction-case}}$, the thermal resistance of the TIM outside the package is $R_{\text{nterface}}(\text{TIM})$ ["C,W], the thermal resistance with the heat sink is $R_{\text{heatsink-ambient}}$ ["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: $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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

