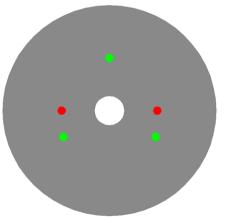


## **Features VS Benefits**

- \* The XSA-326 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 1,200 to 3,500 lumen.
- \* Thermal resistance range Rth 2.33°C/W.
- $^{\star}$  Xicato Thermal Class  $\boldsymbol{J}$  , (  $60^{\circ}$  tilt angle,  $40^{\circ}\text{C}$  ambient ) .
- \* Modular design with mounting holes foreseen for direct mounting of Xicato XSA/ XIM/ XTM modules.
- \* Diameter 78.0mm standard height 50.0mm,Other heights on request.
- \* Forged from highly conductive aluminum.
- \*The XSA-326 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-326 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 avaliable 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-xxxx ; XSM9530-xxxx 

YSM0540 xxxx : YSM0540 xxxx 

XSM0540 xxxx : XSM0540 xxxx 

XSM0540 xxx 

XXM0540 xxx 

XXM0540 xxx 

XXM0540 xxx 

XXM0540 xxx 

XXM0540 xxx 

XXM0540 xxx 

XX

XSM8040-xxxx; XSMV830-xxxx;

Direct mounting with 3 screwsM3 x 12mm;

Green indicator marks.

#### Xicato XIM LED modules name :

XIM198027-xxx ; XIM198040-xxx ; XIM09-V9xxxxxx ;

XIM198030-xxx; XIM19V830-xxx; XIM0980 xxxxxx;

Direct mounting with 3 screws M3 x 20mm;

### Xicato XTM LED modules:

XTM19-8027-xxx; XTM19-8040-xxx; XTM0995 xxxxxx

XTM19-8030-xxx; XTM19-V830-xxx; XTM09-V9xxxxxx; XTM09-V9xxxxxx;

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-326-M3-B-1

Example: XSA-326-M3-

1 Anodising Color B-Black

> C-Clear Z-Custom

Mounting Options - see graphics for

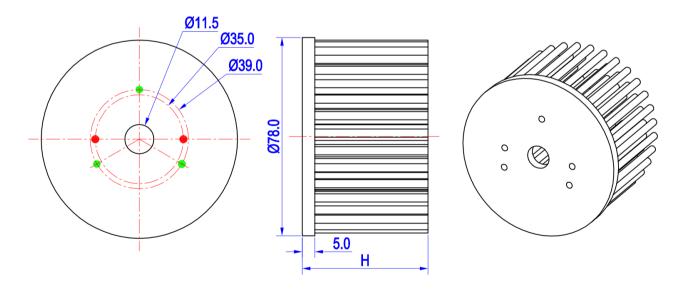
details Combinations available

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.

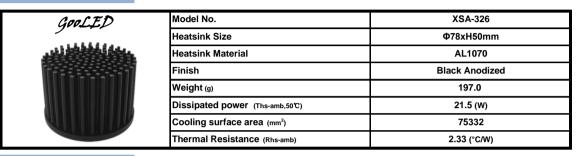
MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
N	XSA-326-M3-#-N	М3	6.5mm	39.0mm/ 3-@120°
1	XSA-326-M3-#-1	М3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
2	XSA-326-M3-#-2	M3	Ф11.5mm	Through-Hole







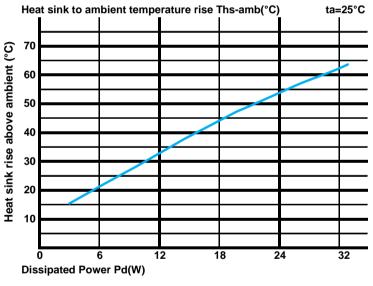
### The product deta table



#### The thermal data table

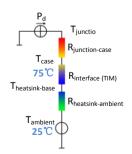
- \* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- \*To calculate the dissipated power please use the following formula:  $Pd = Pe \times (I \eta L)$ .
  - Pd Dissipated power ; Pe Electrical power ;  $\eta L =$  Light effciency of the LED module;

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-326				
Dissipated Power Pd(W)	6.0	3.50	21.0			
	12.0	2.67	32.0			
	18.0	2.44	44.0			
	24.0	2.25	54.0			
	32.0	1.97	63.0			



- \*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).
- $\label{thm:mingFa} \mbox{MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.}$

Either thermal grease, A thermal pad or a phase change thermal pad thickness 0.1-0.15mm 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:  $\theta = (Ths Ta)/Pd$
- \*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:  $T_{iunction} = (R_{unction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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