

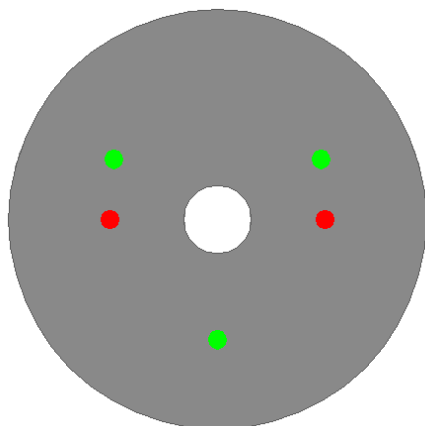
### Features VS Benefits

- \* The XSA-321 Pin Fin LED Heat Sink are specifically designed for luminaires using the Xicato LED Modules.
- \* Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages.
- \* Thermal resistance range  $R_{th}$  3.5°C/W.
- \* Xicato Thermal Class **F** , ( 60° tilt angle, 40°C ambient ) .
- \* The cooler design with mounting holes foreseen for direct mounting of Xicato XSM、XIM and XTM Modules .
- \* Diameter 68mm - Standard height 30mm , Other heights on request.
- \* Forged from highly conductive aluminum.



- \*The XSA-321 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-321 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



### XSA-321 standard height 30mm for Xicato LED modules Mounting Options

#### Xicato XSM LED modules name :

XSM8027-xxxx ; XSM9530-xxxx ;  
XSM8030-xxxx ; XSM9540-xxxx ;  
XSM8040-xxxx ; XSMV830-xxxx ;  
XSM9527-xxxx ;

Direct mounting with 3 screws M3 x 12mm ;  
Green indicator marks.

#### Xicato XIM LED modules name :

XIM198027-xxx ; XIM198040-xxx ;  
XIM198030-xxx ; XIM19V830-xxx ;  
XIM198035-xxx ;

Direct mounting with 3 screws M3 x 20mm ;  
Green indicator marks.

#### Xicato XTM LED modules:

XTM19-8027-xxx ; XTM19-8040-xxx ;  
XTM19-8030-xxx ; XTM19-V830-xxx ;  
XTM19-8035-xxx ;

Direct mounting with 3 screws M3 x 10mm ;  
Green indicator marks.  
Direct mounting by Zhaga mounting holes with 2 screws M3 x 10mm ;  
Red indicator marks.

## Mounting Options and Drawings & Dimensions

Example: XSA-321-M3-B-2

Example: XSA-321-M3-**1**-**2**

**1** Anodising Color

B-Black

C-Clear

Z-Custom

**2** Mounting Options - see graphics for details Combinations available

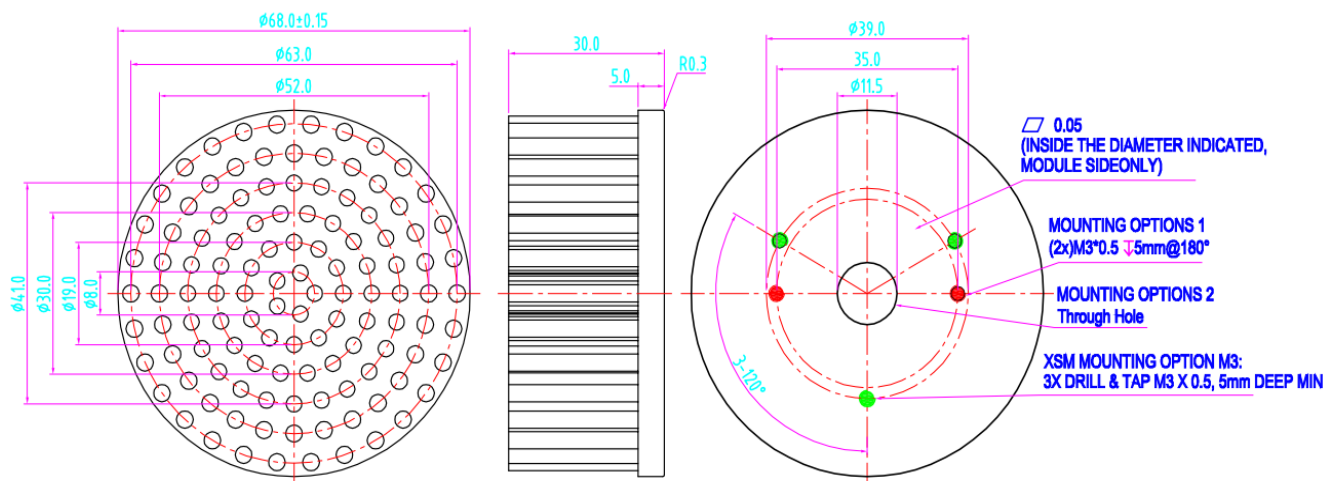
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means option 1 and 2 combined

# XICATO

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.


MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH
NONE	XSA-321-M3-#-N	NONE	NONE
1	XSA-321-M3-#-1	(2x)M3*0.5	5mm
2	XSA-321-M3-#-2	$\Phi 11.5$	Through-hole
3			



*GooLED*

**XSA-321 Pin Fin LED Heat Sink Φ68mm for Xicato**

**The thermal data table**

	
	<i>XSA-321</i>
<b>Model No.</b>	XSA-321
<b>Size</b>	Φ68xH30mm
<b>Material</b>	AL 1070
<b>Finish</b>	Black Anodized
<b>Weight(g)</b>	107
<b>Thermal Wattage</b>	14.3W
<b>HeatsinkOs-a<sup>2</sup></b>	36370
<b>Thermal Resistance (°C/W)<sup>2</sup></b>	3.5

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-321	XSA-321
Dissipated Power Pd(W)	2.5W	4.4	11
	4.5W	4.2	19
	7.0W	3.7	26
	9.5W	3.6	33
	12W	3.5	42
	17.5W	3.1	53
	24.0W	2.8	66

