

## XSA-307

### XSA-307 Modular Passive LED Cooler $\Phi$ 70mm for Xicato

#### Features VS Benefits

- \* The XSA-307 Modular Passive LED Coolers 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.
- \* Designs for XSM Module from 600 to 2500 lumen.
- \* Thermal resistance range  $R_{th}$  2.2°C/W. (XSM Thermal Class G )
- \* The cooler design with mounting holes foreseen for direct mounting of Xicato XSM, XIM and XTM Modules .
- \* Diameter 70mm - Standard height 50mm , Other heights on request.
- \* Extruded from highly conductive aluminum.



\*The XSA-307 Xicato modular passive LED cooler 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 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.

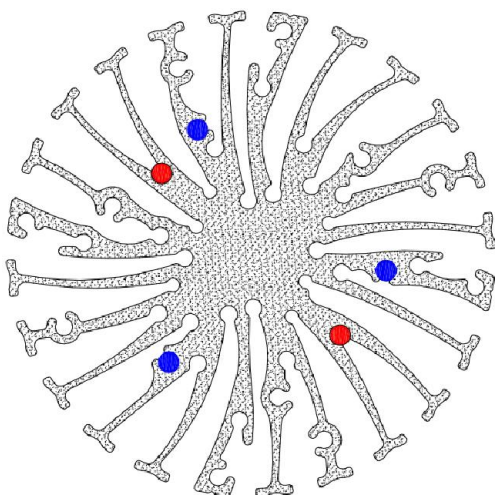
\*Below you find an overview of Xicato LED modules which standard fit on the XSA-307 Passive LED Coolers.

\*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-307 standard height 50mm for Xicato LED modules Mounting Options

##### Xicato XSM LED modules name :

XSM80xx-400 ; XSM80xx-2000 ; XSMV8xx-1300 ;  
XSM80xx-700 ; XSM80xx-3000 ; XSMV8xx-2000 ;  
XSM80xx-1000 ; XSM80xx-4000 ; XSMV8xx-3000 ;  
XSM80xx-1300 ;

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

##### Xicato XIM LED modules name :

XIMCV481980xx13; XIMCV4819V8xx13;  
XIMCV481995xx13; XIMCV4819V8xx20; XTM19V9xx20;  
XIMCV481980xx20;

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

##### Xicato XTM LED modules:

XTM1980xx13 ; XTM1980xx50 ; XTM19V8xx13 ; XTM19V9xx13 ;  
XTM1980xx20 ; XTM1995xx13 ; XTM19V8xx20 ; XTM19V9xx20 ;  
XTM1980xx30 ; XTM1995xx20 ; XTM19V8xx30 ; XTM19V9xx30 ;  
XTM1980xx40 ; XTM1995xx30 ;

Direct mounting with 3 screws M3 x 8mm;  
Green indicator marks.

Direct mounting by Zhaga mounting holes with 2 screws M3 x 8mm;  
Red indicator marks.

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## Mounting Options and Drawings & Dimensions

Example: XSA-307-B-2

Example: XSA-307 - **1** - **2**

### **1** Anodising Color

B-Black

C-Clear

Z-Custom

### **2** Mounting Options - see graphics for

details Combinations available

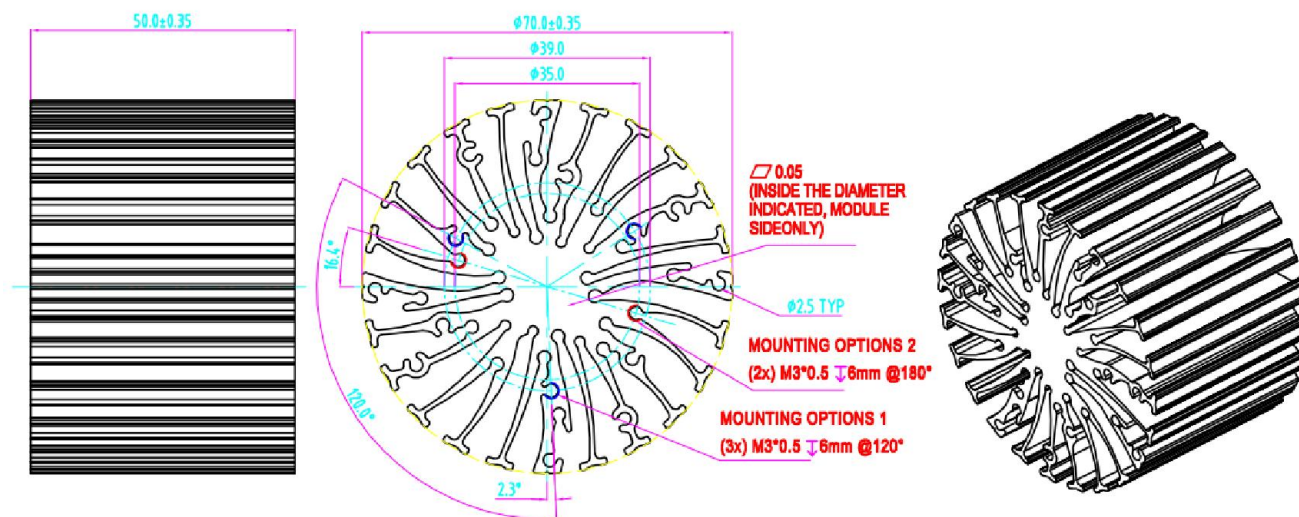
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means option 1 and 2 combined

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.

# XICATO

MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH
NONE	XSA-307-#-N	NONE	NONE
1	XSA-307-#-1	M3*0.5	6mm
2	XSA-307-#-2	M3*0.5	6mm



Tel: +86-769-33252828 +86-769-33251919

E-fax: +86-(020)28819702 ext22122

[Http://www.heatsinkled.com](http://www.heatsinkled.com)

[Http://www.mingfatech.com](http://www.mingfatech.com)



**XSA-307**

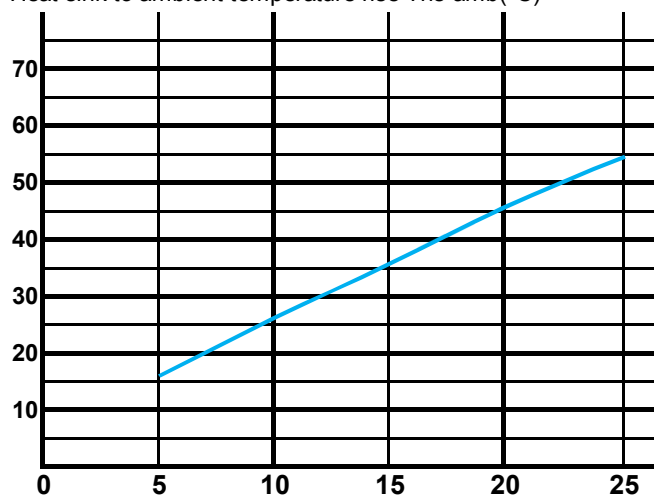
**XSA-307 Modular Passive LED Cooler Φ70mm for Xicato**

**The thermal data table**

		
<b>Model No.</b>	<b>XSA-307</b>	
<b>Size</b>	<b>Φ70xH50mm</b>	
<b>Material</b>	<b>6063-T5</b>	
<b>Finish</b>	<b>Black Anodized</b>	
<b>Weight(gr)</b>	<b>192</b>	
<b>Thermal Wattage</b>	<b>22.9W</b>	
<b>HeatsinkQs-a<sup>2</sup></b>	<b>79093</b>	
<b>Thermal Resistance (°C/W)<sup>2</sup></b>	<b>2.2</b>	

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-307	XSA-307
Dissipated Power Pd(W)	5W	3.1	16
	10W	2.7	27
	15W	2.4	36
	20W	2.3	46
	25W	2.2	53

Heat sink to ambient temperature rise Ths-amb(°C)



Dissipated Power Pd(W)