

GooLED

XSA-318 Pin Fin LED Heat Sink Φ 48mm for Xicato

Features VS Benefits

- * The XSA-318 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} 3.7°C/W. For downlight designs from 400 to 1900 lumen.
- * Xicato Thermal Class **E**, (60° tilt angle, 40°C ambient).
- * The cooler design with mounting holes foreseen for direct mounting of Xicato XSM, XIM and XTM Modules .
- * Diameter 48mm - Standard height 68mm , 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.

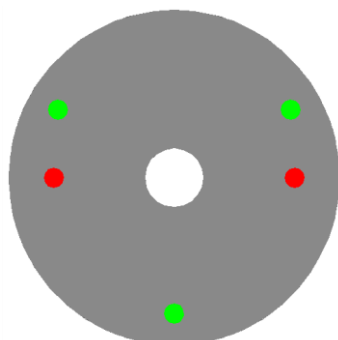
*Below you find an overview of Xicato LED modules which standard fit on the XSA-318 Pin Fin LED Heat Sinks.

*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



XSA-318 standard height 68mm 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-318-M3-B-2

Example: XSA-318-M3-**1**-**2**

1 Anodising Color

B-Black

C-Clear

Z-Custom

2 Mounting Options - see graphics for details Combinations available

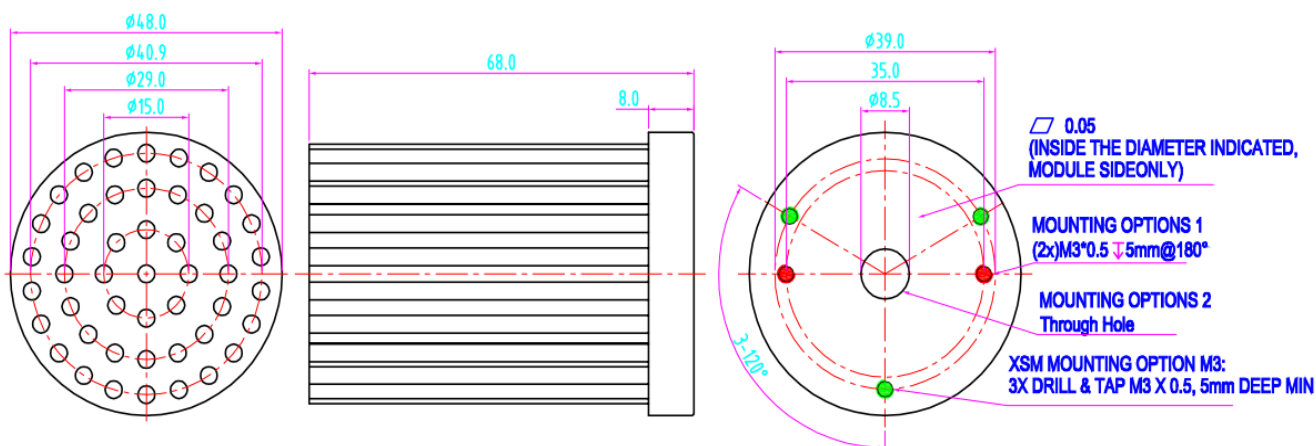
Ex.order code - 12

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-318-M3-#-N	NONE	NONE
1	XSA-318-M3-#-1	(2x)M3*0.5	5mm
2	XSA-318-M3-#-2	$\Phi 8.5$	Through-hole
3			





The thermal data table

	
	<i>XSA-318</i>
Model No.	XSA-318
Size	$\Phi 48 \times H68\text{mm}$
Material	AL 1070
Finish	Black Anodized
Weight(g)	91
Thermal Wattage	13.5W
HeatsinkOs-a²	30273
Thermal Resistance ($^{\circ}\text{C}/\text{W}$)²	3.7

$P_d = P_e \times (1 - \eta_L)$		Heat sink to ambient thermal resistance Rhs-amb ($^{\circ}\text{C}/\text{W}$)	Heat sink to ambient temperature rise Ths-amb ($^{\circ}\text{C}$)
		XSA-318	XSA-318
Dissipated Power Pd(W)	1.2W	5.8	7
	3W	4.7	14
	9W	3.9	35
	12W	3.7	44
	15W	3.3	51
	18W	3.2	57

