



Mingfa TECH for LED

XSA-308

XSA-308 Modular Passive LED Cooler Φ 70mm for Xicato

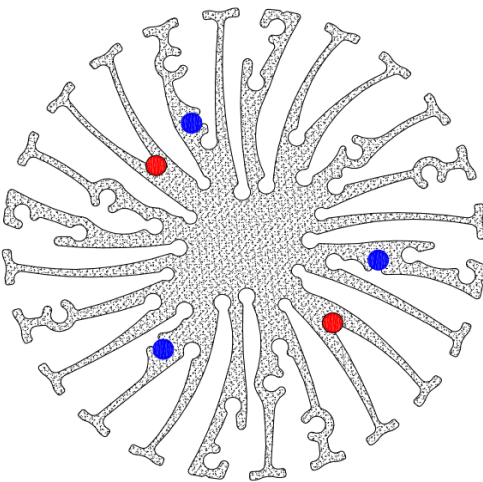
Features VS Benefits

- * The XSA-308 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 800 to 3000 lumen.
- * Thermal resistance range R_{th} 1.8°C/W. (XSM Thermal class H)
- * The cooler design with mounting holes foreseen for direct mounting of Xicato, XTM and XIM Modules .
- * Diameter 70mm - standard height 80mm Other heights on request.
- * Extruded from highly conductive aluminum.



- *The XSA-308 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-308 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-308 standard height 80mm 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 :

XIM1980xx13 ; XIM1980xx20 ;
 XIM19V8xx13 ; XIM19V8xx20 ;
 XIM1995xx13 ;

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-308-M3-B-1

Example: XSA-308-M3 - 1 - 2

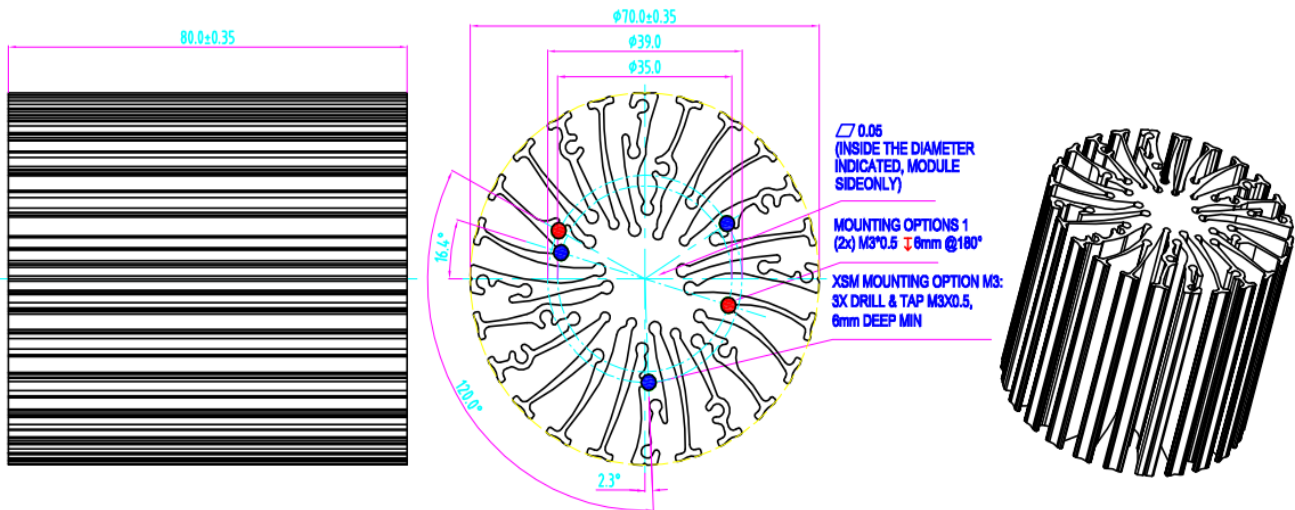
- 1** Anodising Color
 - B-Black
 - C-Clear
 - Z-Custom

- 2** Mounting Options - see graphics for details Combinations available
 - Ex.order code - 12
 - means option 1 and 2 combined

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-308-M3-#-N	NONE	NONE
1	XSA-308-M3-#-1	M3*0.5	6mm



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.



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The thermal data table

	
Model No.	XSA-308
Size	Φ70xH80mm
Material	6063-T5
Finish	Black Anodized
Weight(gr)	308
Thermal Wattage	28.1W
HeatsinkΘs-a²	124837
Thermal Resistance ($^{\circ}$C/W)²	1.8

Dissipated Power Pd(W)	Pd = Pe x (1- η L)	
	Heat sink to ambient thermal resistance Rhs-amb ($^{\circ}$ C/W)	Heat sink to ambient temperature rise Ths-amb ($^{\circ}$ C)
	XSA-308	XSA-308
5W	2.80	13
10W	2.35	24
15W	2.15	32
20W	1.92	39
30W	1.80	53

Heat sink to ambient temperature rise Ths-amb($^{\circ}$ C) $t_a=25^{\circ}$ C

