

XSA-307

XSA-307 Modular Passive LED Cooler Φ 70mm for Xicato

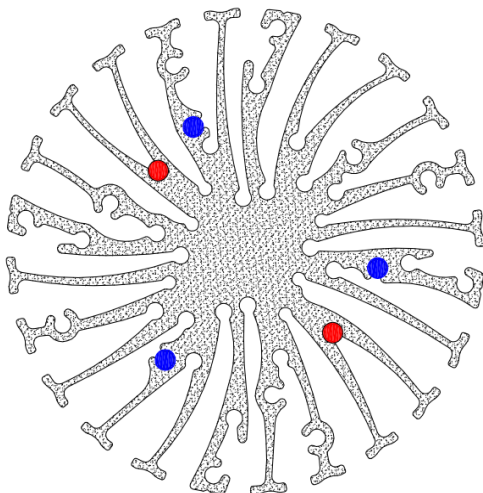
Features VS Benefits

- * 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 :

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;
 Blue 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-M3-B-2

Example: XSA-307-M3 - **1** - **2**

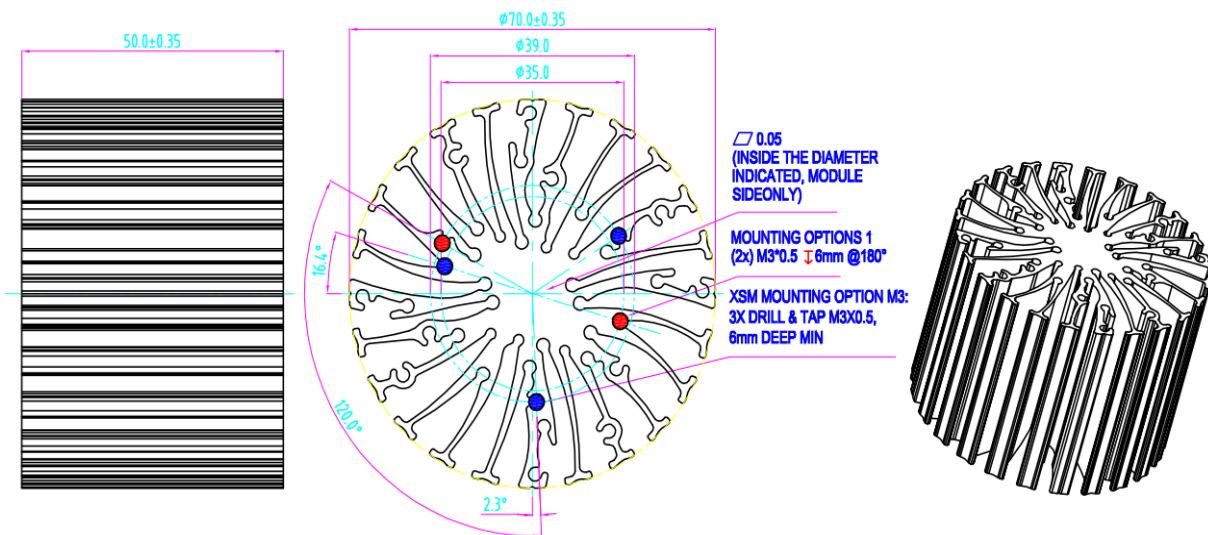
- 1** Anodising Color
 B-Black
 C-Clear
 Z-Custom

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



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

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.



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-307 |
| Size | Φ70xH50mm |
| Material | 6063-T5 |
| Finish | Black Anodized |
| Weight(gr) | 192 |
| Thermal Wattage | 22.9W |
| HeatsinkΘs-a² | 79093 |
| Thermal Resistance ($^{\circ}$C/W)² | 2.2 |

| | 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-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($^{\circ}$ C) $t_a=25^{\circ}$ C

