

GooLED

XSA-322 Pin Fin LED Heat Sink Φ 68mm for Xicato

Features VS Benefits

- * The XSA-322 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} 2.7°C/W.
- * Xicato Thermal Class **G** , (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 50mm , Other heights on request.
- * Forged from highly conductive aluminum.



*The XSA-322 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.

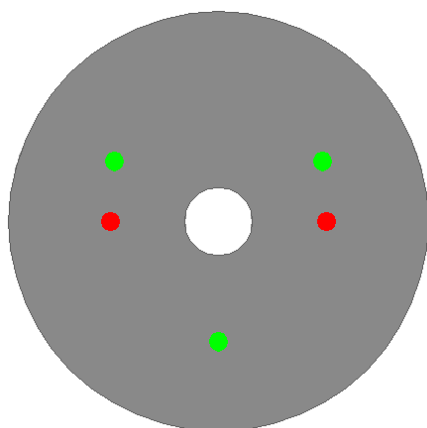
*Below you find an overview of Xicato LED modules which standard fit on the XSA-322 Pin Fin LED Heat Sinks.

*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-322 standard height 50mm 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-322-M3-B-2

Example: XSA-322-M3- **1** - **2**

1 Anodising Color

B-Black

C-Clear

Z-Custom

2 Mounting Options - see graphics for details Combinations available

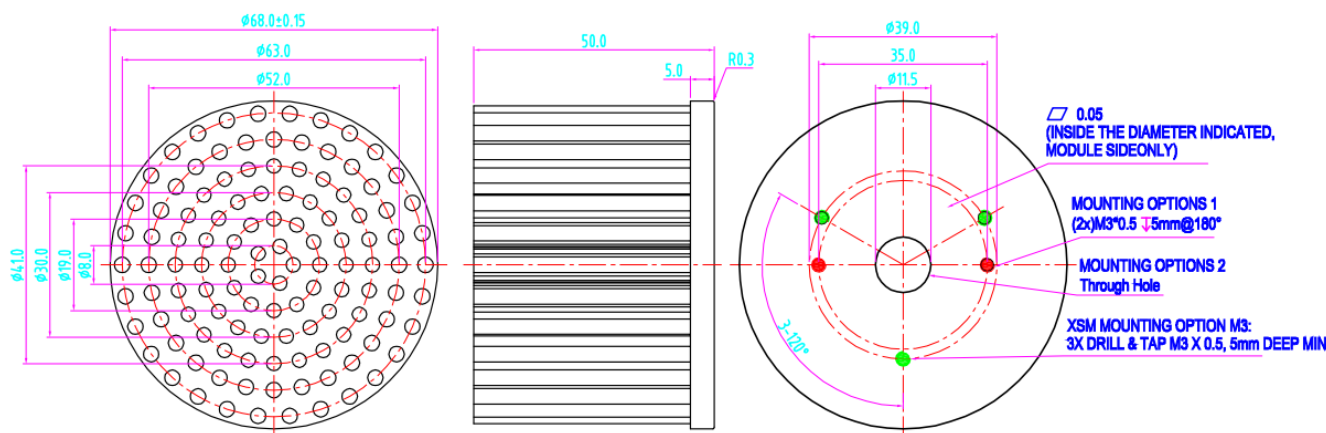
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means option 1 and 2 combined

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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-322-M3-#-N | NONE | NONE |
| 1 | XSA-322-M3-#-1 | 2-M3*0.5 | 5mm |
| 2 | XSA-322-M3-#-2 | Φ 11.5 | Through-hole |
| 3 | | | |
| | | | |



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The thermal data table

| | |
|--|--|
| |  <p><i>XSA-322</i></p> |
| Model No. | XSA-322 |
| Size | Φ68xH50mm |
| Material | AL 1070 |
| Finish | Black Anodized |
| Weight(g) | 153 |
| Thermal Wattage | 18.5W |
| HeatsinkOs-a² | 58801 |
| Thermal Resistance (°C/W)² | 2.7 |

| $P_d = P_e \times (1-\eta_L)$ | | Heat sink to ambient thermal resistance Rhs-amb (°C/W) | Heat sink to ambient temperature rise Ths-amb (°C) |
|-------------------------------|-------|--|--|
| | | XSA-322 | XSA-322 |
| Dissipated Power Pd(W) | 2.5W | 4.0 | 10 |
| | 4.5W | 3.6 | 16 |
| | 7.0W | 3.2 | 22.5 |
| | 9.5W | 2.9 | 28 |
| | 12W | 2.8 | 34 |
| | 17.5W | 2.7 | 47 |
| | 24.0W | 2.3 | 55 |

