



## xLED-XIT-4568 Pin Fin LED Heat Sink Ф45mm for Xicato

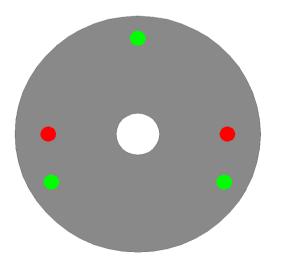
#### **Features VS Benefits**

- \* The xLED-XIT-4568 Xicato Pin Fin LED Heat Sinks are specifically designed for luminaires using the Xicato LED engines.
- \* Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- \* For spotlight and downlight designs from 300 to 1,400 lumen.
- \* Thermal resistance range Rth 4.76°C/W.
- \* Modular design with mounting holes foreseen for direct mounting of Xicato XSA/ XIM/ XTM modules.
- \* Diameter 45.0mm standard height 68.0mm,Other heights on request.
- \* Forged from highly conductive aluminum.

#### Zhaga LED engine and radiator assembly is a unified future international standardization

- \* Below you find an overview of Seoul COB's and LED modules which standard fit on the Pin Fin LED Heat Sinks.
- \* In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED Pin Fin LED Heat Sink.





### **Xicato LED Modules directly Mounting Options**

#### Xicato XSM LED modules name :

XSM8027-xxxx; XSM9530-xxxx; XSM8030-xxxx; XSM8040-xxxx; XSM8040-xxxx; XSMV830-xxxx;

Direct mounting with 3 screwsM3 x 12mm;

Green indicator marks.

Green indicator marks.

## Xicato XIM LED modules name :

XIM198027-xxx; XIM198040-xxx; XIM09-V9xxxxx;

XIM198030-xxx; XIM19V830-xxx; XIM0980 xxxxx; XIM0980 xxxxx; XIM0980 xxxxx; Direct mounting with 3 screws M3 x 20mm;

#### Xicato XTM LED modules:

XTM19-8027-xxx; XTM19-8040-xxx; XTM0995 xxxxx

XTM19-8030-xxx; XTM19-V830-xxx; XTM09-V9xxxxx;

Direct mounting with 3 screws M3 x 10mm; Green indicator marks.

Direct mounting by Zhaga mounting holes with 2 screws M3 x 8mm;

Red indicator marks.





# **Mounting Options and Drawings & Dimensions**

Example: xLED-XIT-4568-M3-B-1

Example: xLED-XIT-4568-M3-

1 Anodising Color

B-Black C-Clear Z-Custom

Mounting Options - see graphics for

details Combinations available

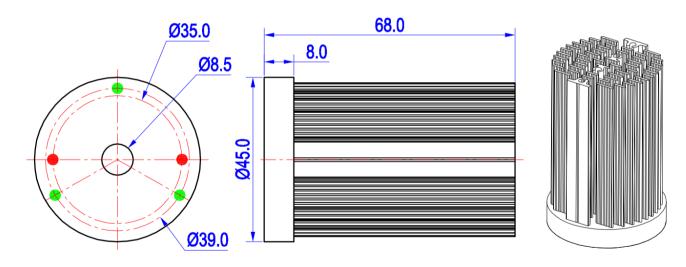
Ex.order code - 12

means option 1 and 2 combined

#### **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.

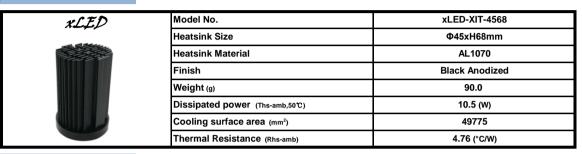
MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
N	xLED-XIT-4568-M3-#-N	М3	6.5mm	39.0mm/ 3-@120°
1	xLED-XIT-4568-M3-#-1	M3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
2	xLED-XIT-4568-M3-#-2	M3	Ф8.5mm	Through-Hole







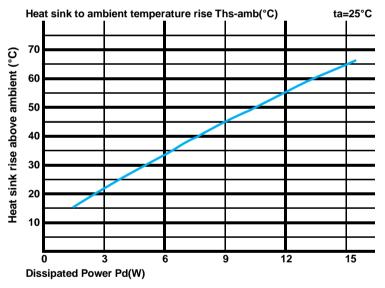
## The product deta table



#### The thermal data table

- \* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- \*To calculate the dissipated power please use the following formula:  $Pd = Pe \times (I \eta L)$ .
  - Pd Dissipated power ; Pe Electrical power ;  $\eta L = \text{Light effciency of the LED module};$

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	
		xLED-XIT-4568		
Dissipated Power Pd(W)	3.0	7.00	21.0	
	6.0	5.50	33.0	
	9.0	5.00	45.0	
	12.0	4.58	55.0	
	15.0	4.27	64.0	



- \*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material). 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.
- T<sub>case</sub>
  T<sub>case</sub>
  T<sub>heatsink-base</sub>
  T<sub>ambient</sub>
  T<sub>ambient</sub>
  T<sub>ambient</sub>
  T<sub>ambient</sub>
  T<sub>ambient</sub>
  T<sub>ambient</sub>
  T<sub>ambient</sub>
- \*Thermal resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow. Geometric shapes are different, the thermal resistance is different. Formula:  $\theta = (Ths Ta)/Pd$
- $\theta\,$  Thermal Resistance [°C/W] ; Ths - Heatsink temperature ; Ta - Ambient temperature ;
- \*The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is  $R_{\text{junction-case}}$ , the thermal resistance of the TIM outside the package is  $R_{\text{interface}}(TIM)$  ["C,W], the thermal resistance with the heat sink is  $R_{\text{heatsink-ambient}}$  ["C,W], and the ambient temperature is  $T_{\text{ambient}}$  ["C].
- \*Thermal resistances outside the package  $R_{interface (TIM)}$  and  $R_{heatsink-ambient}$  can be integrated into the thermal resistance  $R_{case-ambient}$  at this point. Thus, the following formula is also used:  $T_{junction} = (R_{junction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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